ATH-Heinl

USER´S MANUAL

ATH DSH3000F2
ATH DSH3000FI2

www.ath-heinl.de

CONTENT

INTRODUCTION ..... **Fehler! Textmarke nicht definiert.**
General information ..... **Fehler! Textmarke nicht definiert.**
Description of lift 4
Main components 4
Operation 5
Technical data 6
Scope of delivery 9
INSTALLATION 10
Foundation 10
Place of installation 12
Assembly 13
OPERATION 16
Safety instructions 16
Operation instructions 17
Utilization ..... **Fehler! Textmarke nicht definiert.**
MAINTENANCE 19
Troubleshooting ..... **Fehler! Textmarke nicht definiert.**
Maintenance plan 21
Lubrication plan 22
Maintenance- and service instructions 22
DECLARATION OF CONFORMITY 25
SPARE PART BOOK 26
APPENDIX 39
Electric diagram 39
Hydraulic diagram 40
WARRANTY NOTE 41
CHECKING BOOK 43
NOTES 56

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Introduction

General Information

THE USER OF THE LIFT HAVE TO READ AND UNDERSTOOD THESE MANUAL:
ALL LIABILITY IS EXCLUDED FOR DAMAGES WHICH RESULT FROM NON-COMPLIANCE OF THESE INSTRUCTIONS
WE WILL NOT ASSUME ANY LIABILITY CAUSED BY NON-COMPLIANCE WITH SAFETY NOTICES

Note: Follow the instructions to prevent personal injury or damage

Hint: Gives additional information on features and tips for efficiently using of the device.

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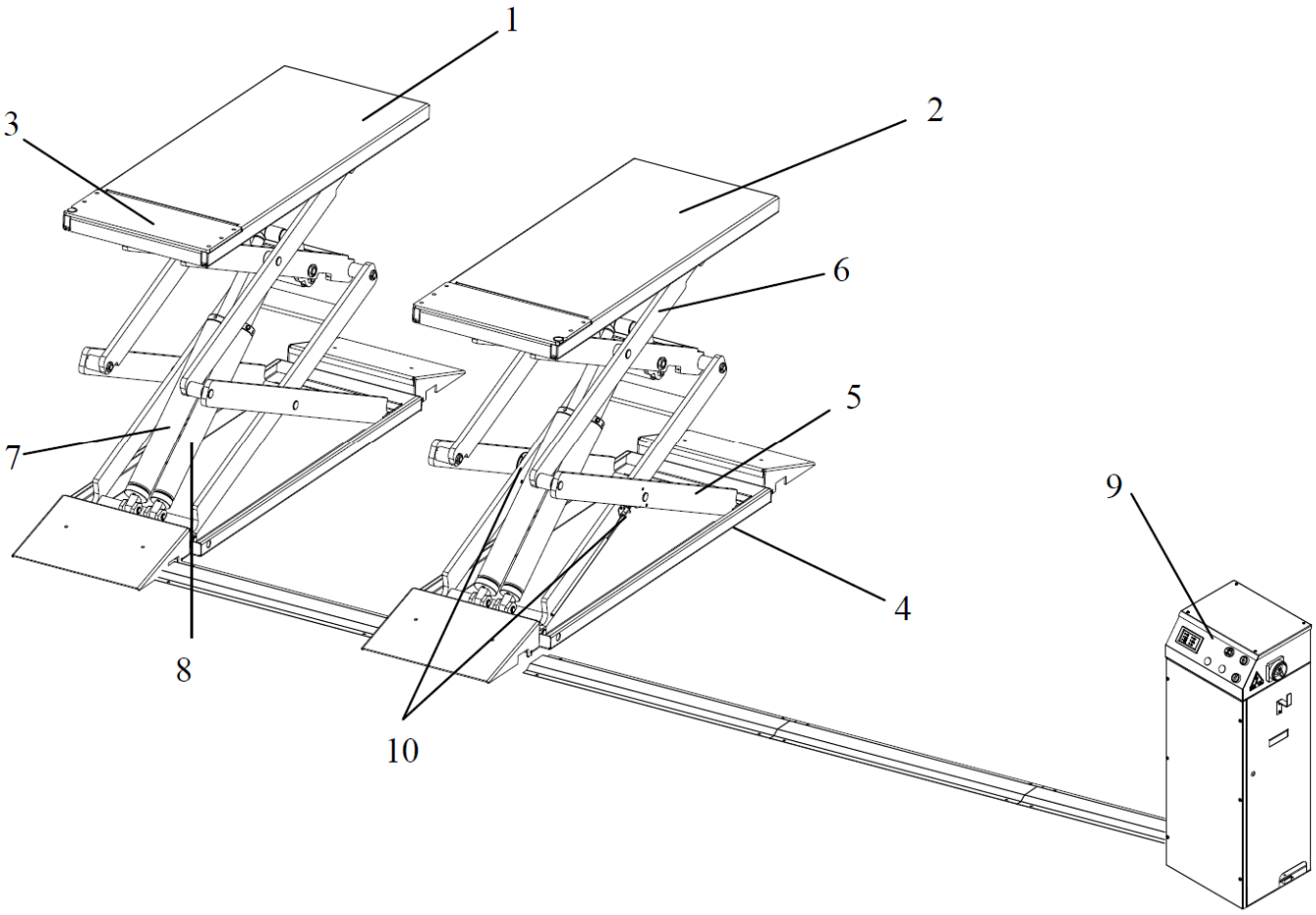
Description of lift



Main components

1. Lifting platform (P1)
2. Lifting platform (P2)
   The platforms are raised by the inner hydraulic cylinder and the scissor principle.
   The hydraulic safety device prevents an accidental lowering of the lift.
3. Extensions
   Enables an extension of the lifting platforms
4. Basic frame
   For fixing the lift
5. Lower scissor pair
6. Upper scissor pair
7. Main cylinder
8. Secondary cylinder
9. Hydraulic aggregate with control box (deadman system)
   Herewith the hydraulic oil in the tank will be piped via a gear pump, which is driven by the motor, to the cylinder. With a lowering valve the oil will be piped back into the tank.
10. CE-Stop and limit switch
    The CE-Stop stops the lift while lowering at a height of 500 mm.
    The limit switch stops the lifting at reaching the max. lifting height and protects with that the hydraulic system.

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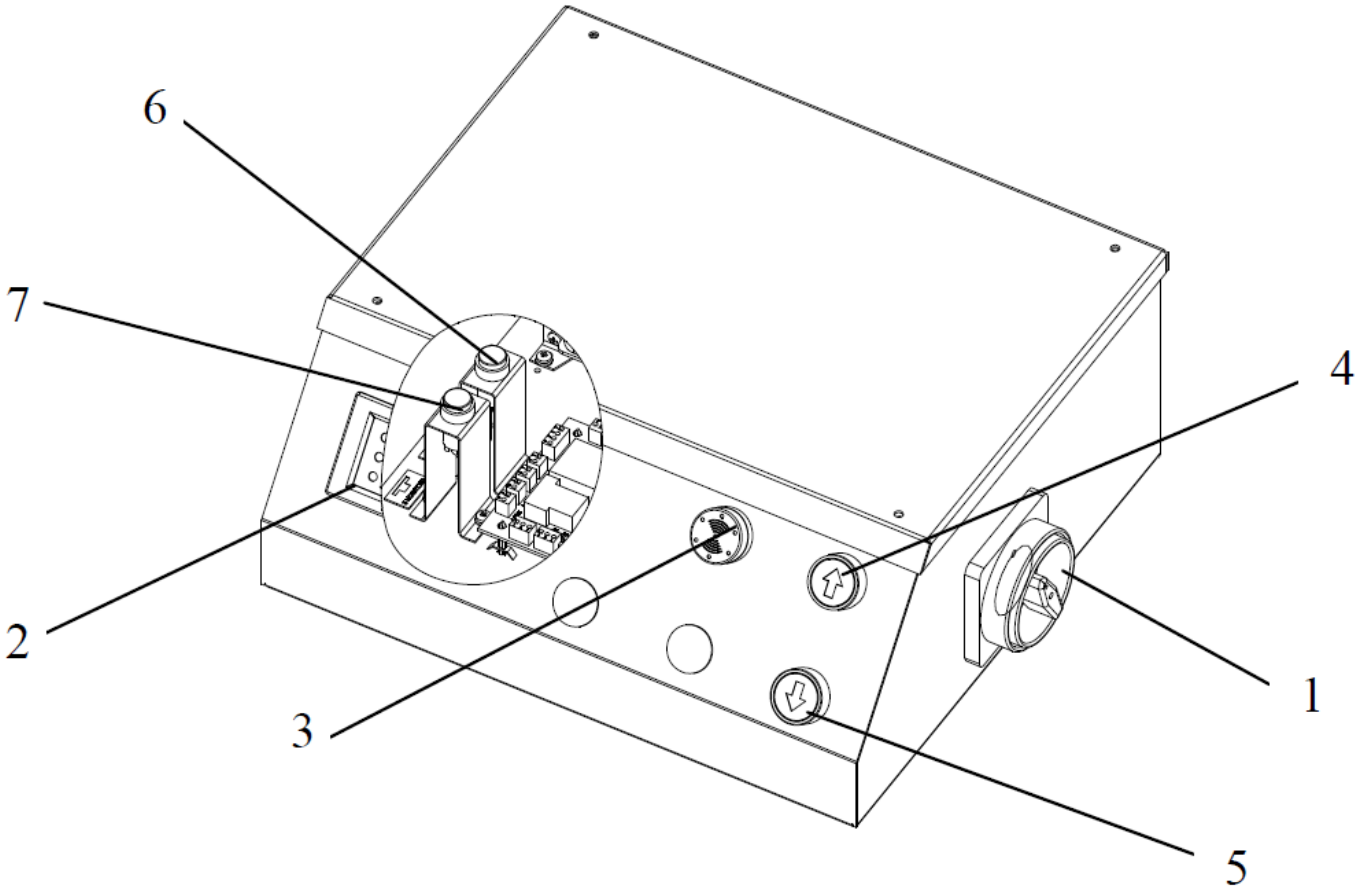
Operation



1. Lockable main switch with emergency stop function
   for switching on and off the lift and as security against an use of unauthorized persons.

2. Display of operation

ON	Indicates that the lift is switched on.
	Indicates that the limit switch is reached.
	Indicates that the CE-Stop was activated.
	Indicates that the motor works.
Min	Indicates that the lift is in the final lowering process.
Err	Indicates that there is an error or a malfunction in the electrical system.

3. Buzzer
   gives an acoustic an visual signal after reaching the CE-Stop

4. Button LIFTING

5. Button LOWERING

6. Button for bridging the limit switch
   suitable for bleeding the hydraulic cylinder

7. Button for bridging the light barrier
   enables an adjustment of the synchronization

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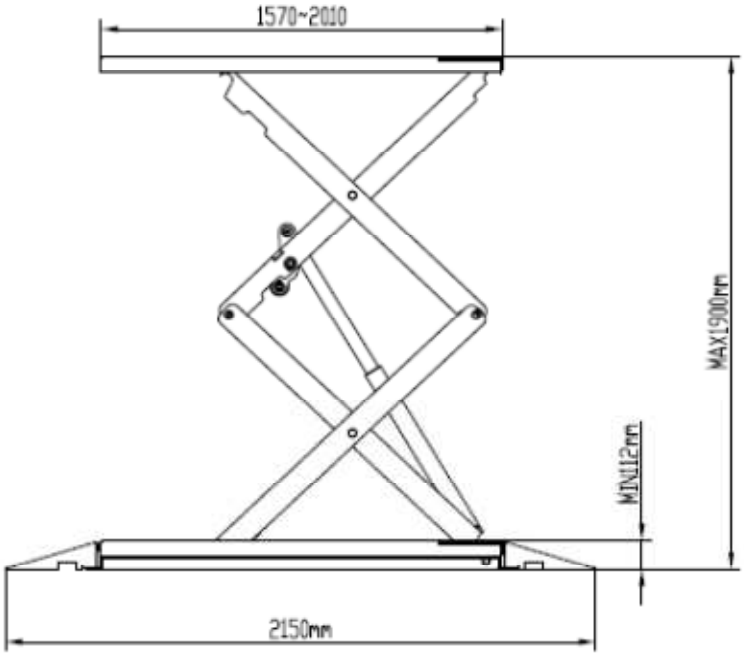
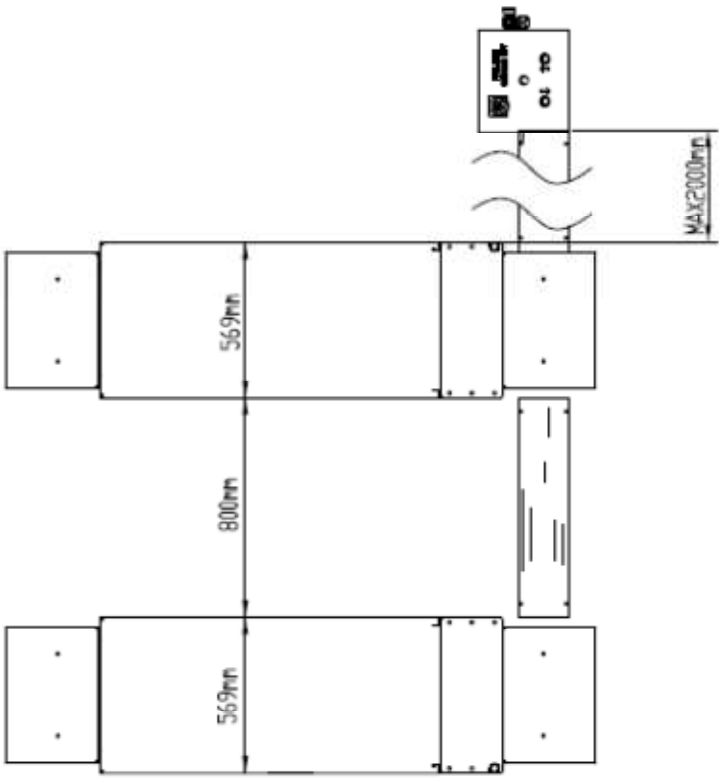
Technical data





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Type	ATH DSH 3000F2	ATH DSH 3000FI2
Capacity	3.000 kg	
Lifting time	50 s	
Lowering time	50 s	
Electric system	3/400V/50Hz	
Voltage	DC24V	
Motor	2,6 KW	
Revolution per minute	1.375 U/min	
Fuse protection	3 C 16 A	
Connection cables	Min. 5 x 1,5mm²	
Protection type	IP 54	
Working pressure [2]	125 -145 bar	
Recommended hydraulic-oil	Sommer: H-LPD 32 (z.B.: OEST H-LPD 32 DD L) Winter: H-LPD 22	
Oil quantity		
Floor anchoring scissor pair	8 Stück	
Floor anchoring control box	4 Stück	
Floor anchoring drive-over sheet	16 Stück	
Noise level	≤ 75 dB (A)/lm	
Weight	830 kg	

[2] ⚠ The already factory-set hydraulic working pressure is adjusted to the maximum rating. The setting of the pressure control valve may not be changed. Any changes to the settings can cause serious damages. If nominal load can not be lifted please contact our service team..

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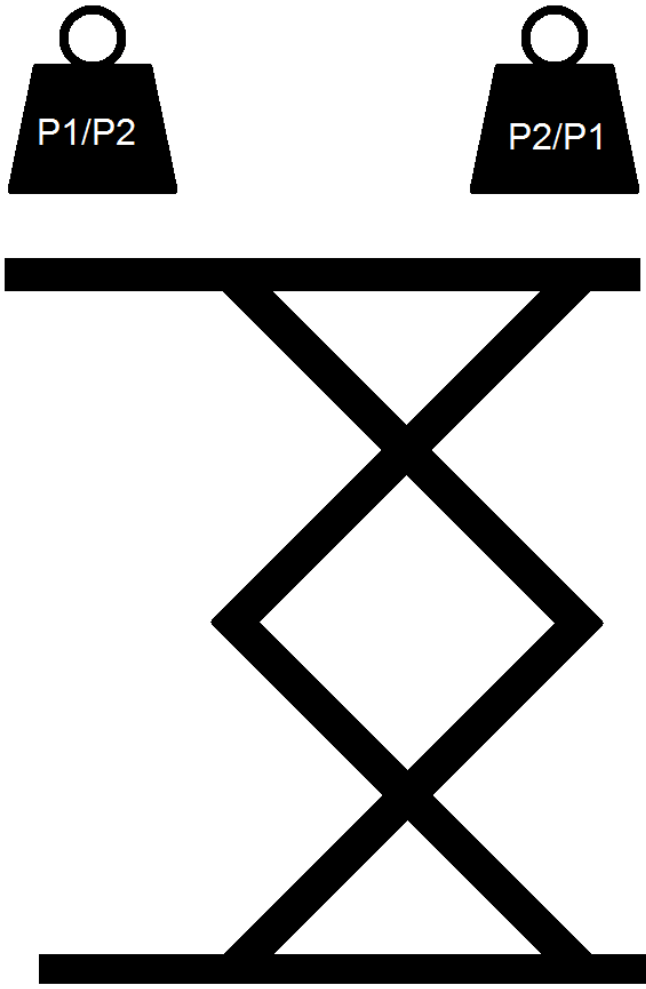
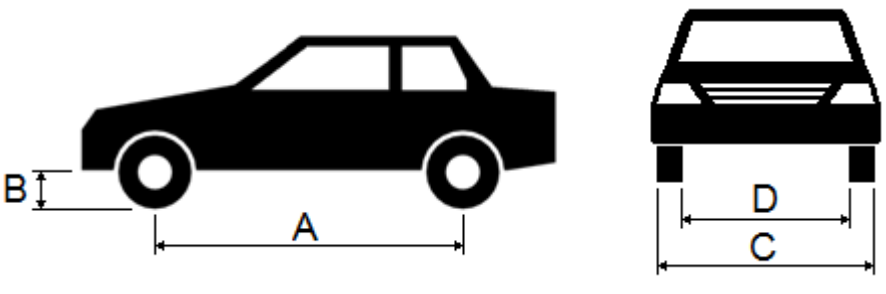
Load distribution



Q	Total weight of vehicle
P1	Max 2/5 x Q
P2	Max 3/5 x Q
Load distribution	2/3

[2] ⚠ At bigger distances the load capacity will be reduced. In this case and in other cases, which are not covered by this manual the manufacturer should be contacted.

	Min	Max
A	1.900 mm	4.000 mm
B	100 mm	
C		1.900 mm
D	900 mm	



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Scope of delivery

2 Packages with scissors:
Dimension (L x W x H): 1.570 x 580 x 200 mm
Weight:
1 Package with control box, hydraulic- and pneumatic hoses:
Dimension (L x W x H): 400 x 540 x 1.140 mm
Weight:
2 Packages with ramps
Dimension (L x W x H): 500 x 340 x 120 mm
Weight:
1 Package with drive-over plates
Dimension (L x B x H):
Weight:

If anything is missing in the delivery please contact our sales department!

Transportation and storage:

- Lift with care, using suitable means of support for the load, in perfect working order and using the special hooking point.
- Avoid sudden jolts and tugs, watch out for uneven surfaces, bumps etc.
- After removing the packing, check that they are taken to special waste collecting areas inaccessible to children and animal as long as they are not disposed.
- Warehouse temperature: -25℃ ～ +55 ℃

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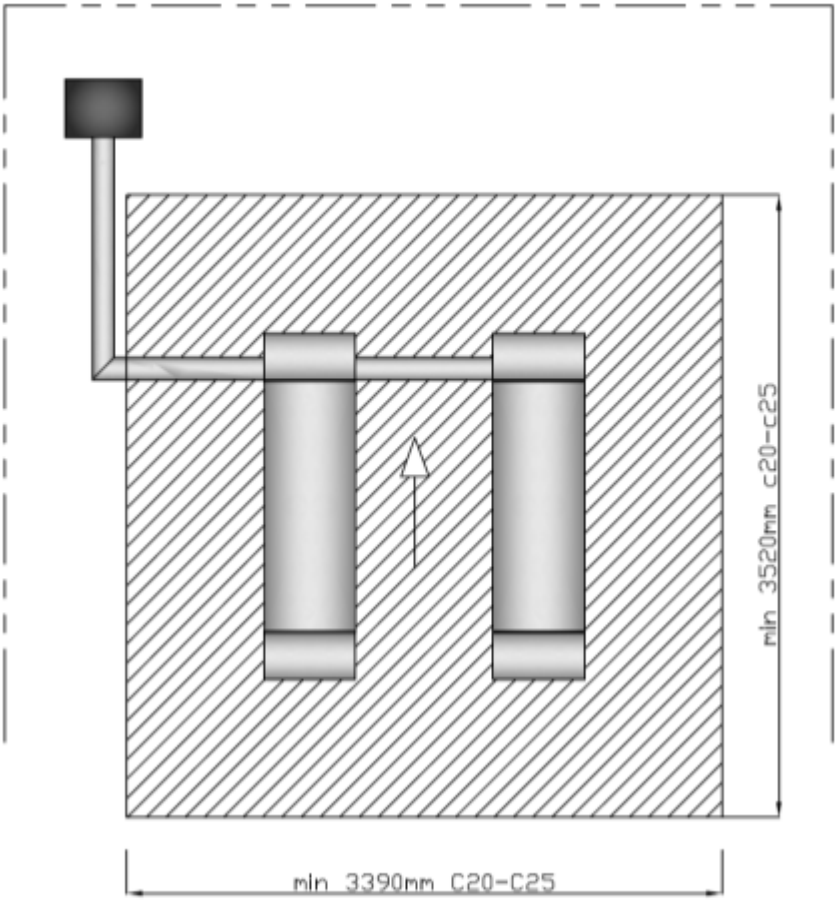
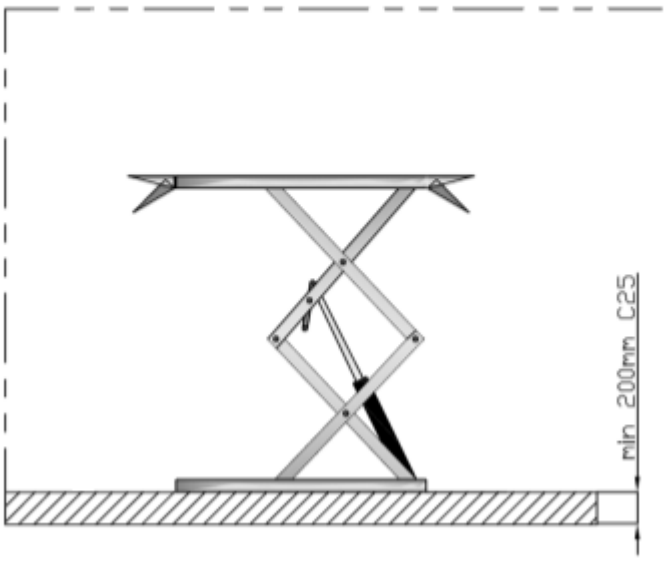
INSTALLATION

Foundation
for ATH DSH3000F2





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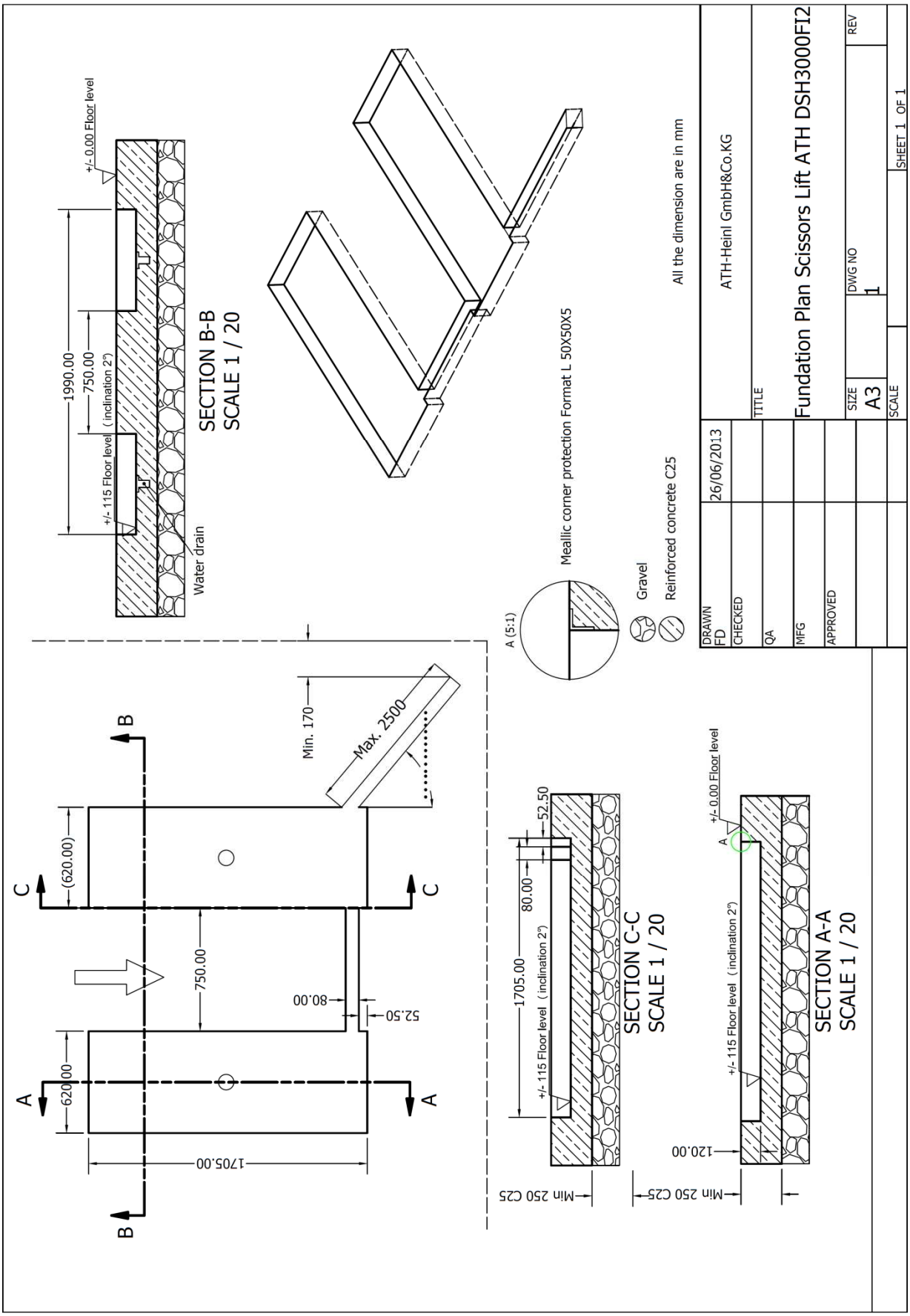
for ATH DSH3000FI2



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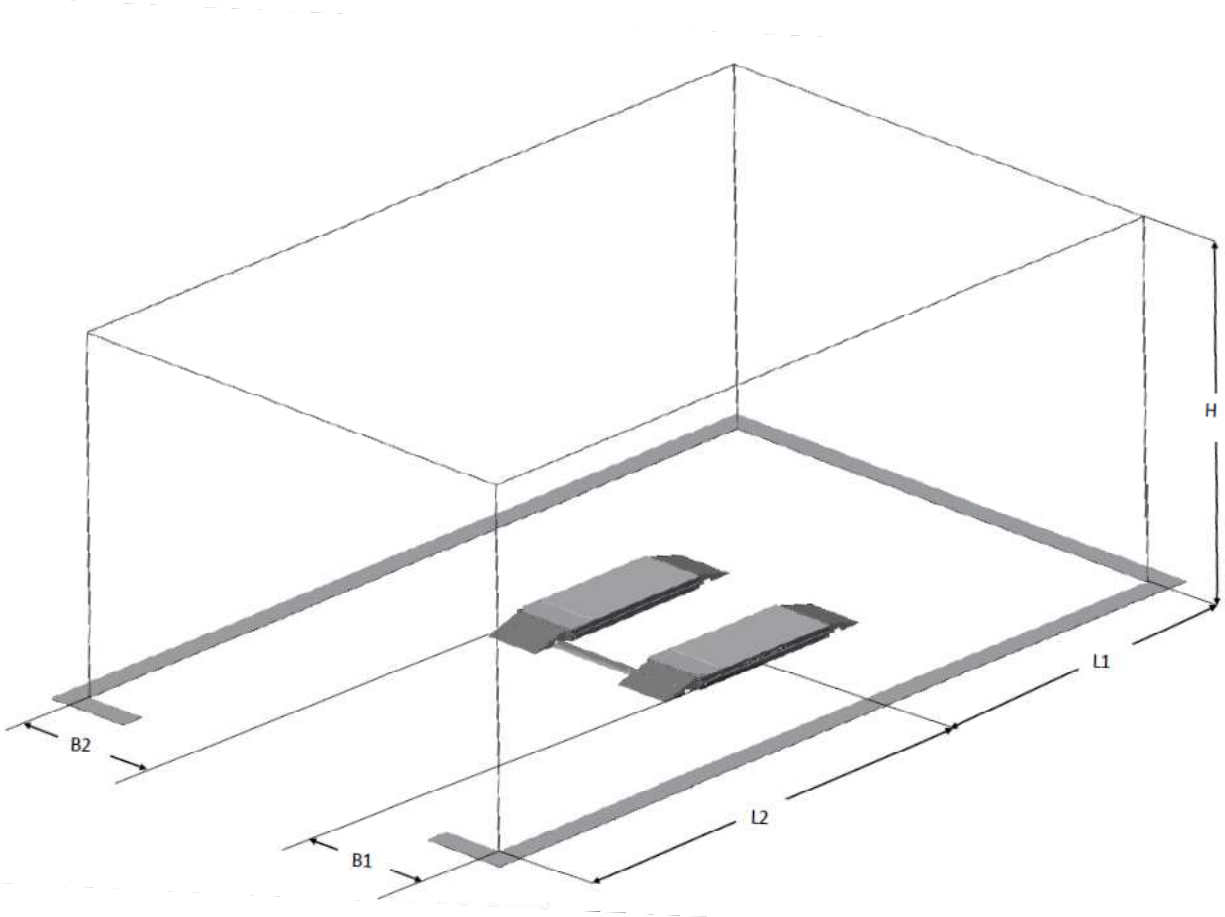
Concrete quality:	C20/25
Concrete curing time:	Min. 20 days
Max. incline:	10 mm

If soils do not comply with the requirements, there can evoke serious injuries to personal or damages to the lift.
Do **not install** the lift on **asphalt** or **soft concrete floor**.
There must be **no expansion joints or cuts**, which will break the continuity of the upper reinforcement.
Load capacity of intermediate ceilings must be checked by operator.

Place of installation



B1	1.000 mm	B2	1.000 mm
L1	appr. 2.800 mm	L2	appr. 2.800 mm
H	appr. 4.000 mm		

Allowed working temperature:	10-50 ℃
Max. allowed humidity:	≤80% bei 30 ℃
Height above sea level:	≤2000m
Power connection and ground cable (see technical data) is to be made in form of a plug device (socket and plug) or a fixed connection.	
Necessary supply lines	See technical data

The lift is designed for an installation in dry rooms. The installation in **wet rooms** as well as **rooms with a risk of explosion is not allowed.**

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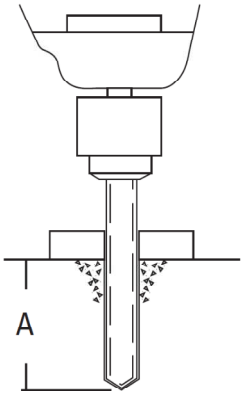
Assembly of lift

⚠ This manual is **not** to be seen as an assembly instruction, but only as a help and advice for skilled personal. For the following works are necessary the adequate clothes and safety equipments. An incorrect installation and adjustments causes disclaimer of warranty.

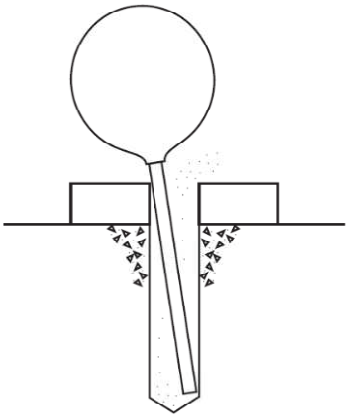
1. Positioning and alignment
   a. By means of chalk the position for the installation can be marked before.
   b. Pay attention to the drive-on direction while positioning the scissors.
   c. Position the control box as indicated in the technical data.

2. Fixing with safety anchors:

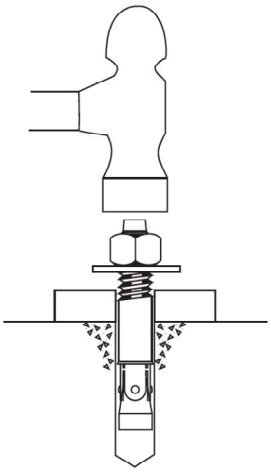
   a. Bore holes and pay attention to the necessary boring depth A and boring diameter of the anchor manufacturer



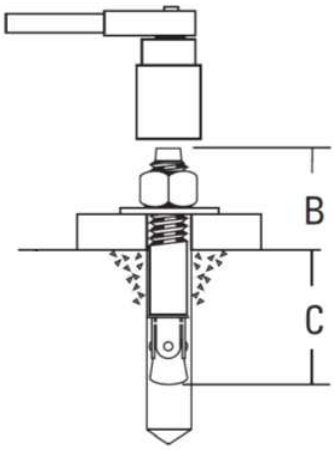
   b. Clean the inner oft he holes



   c. Put the anchors into the holes until the needed depth is reached.



   d. Tight the nuts with the torque specified by the manufacturer.
   Thickness B depends on floor cover.



3. Hydraulic connection
   a. First open the front cover of the control box
   b. Install the hydraulic hoses as shown below.

   ⚠ Retight all hydraulic connections.
   Make sure that no movable parts can damage the hydraulic hoses.

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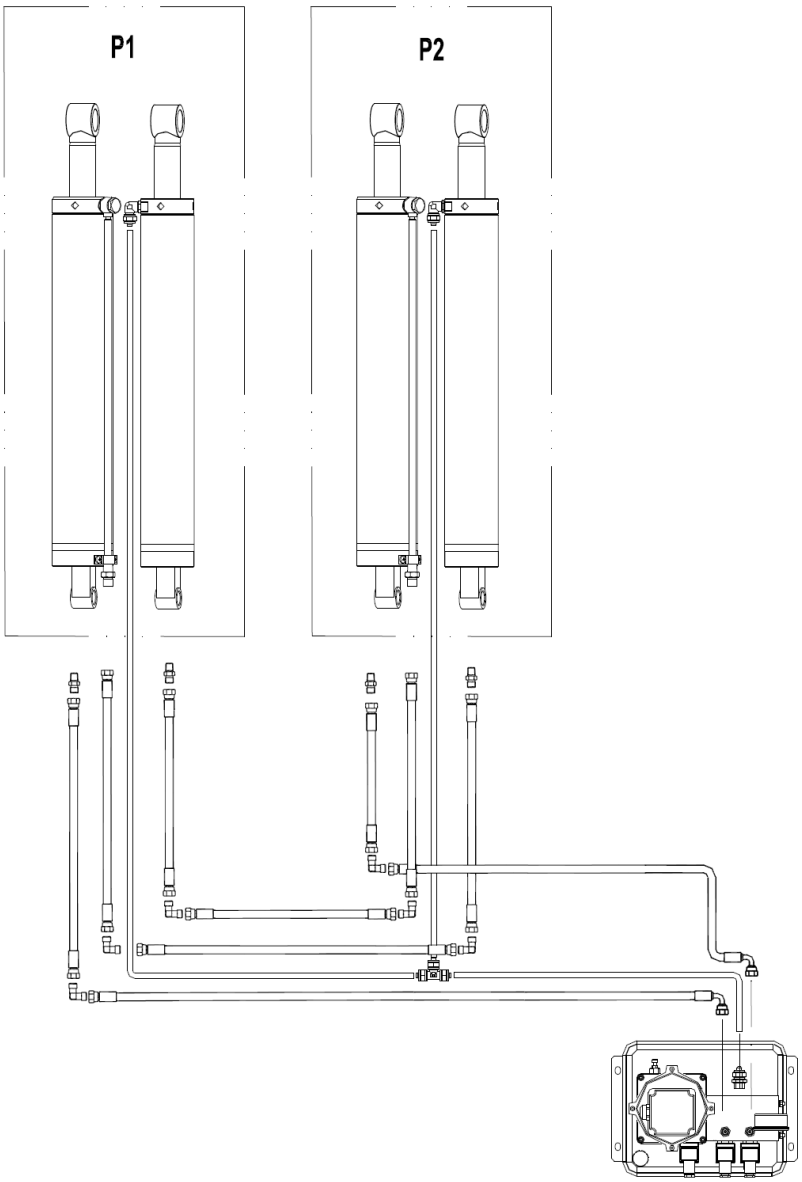

4. Hydraulic oil

    a. Fill in hydraulic oil until the mark.

5. Electrical connection

⚠ Herewith the general as well as the local regulations have to be observed. Therefore only skilled personal are allowed to make this work.
Pay attention to the necessary power supply (see technical data).

6. Check before first lifting

    a. the tightness of all screws, nuts and so on
    b. the leak tightness of connections and cylinders, retight if necessary
    c. the function of all buttons
    d. the correct rotating direction of motor
    e. bleed the hydraulic circuit as desbribed in chapter maintenance
    f. At the first lifting lubricate the sliding guide of the scissor arms (lubrication type see in the lubrication plan)

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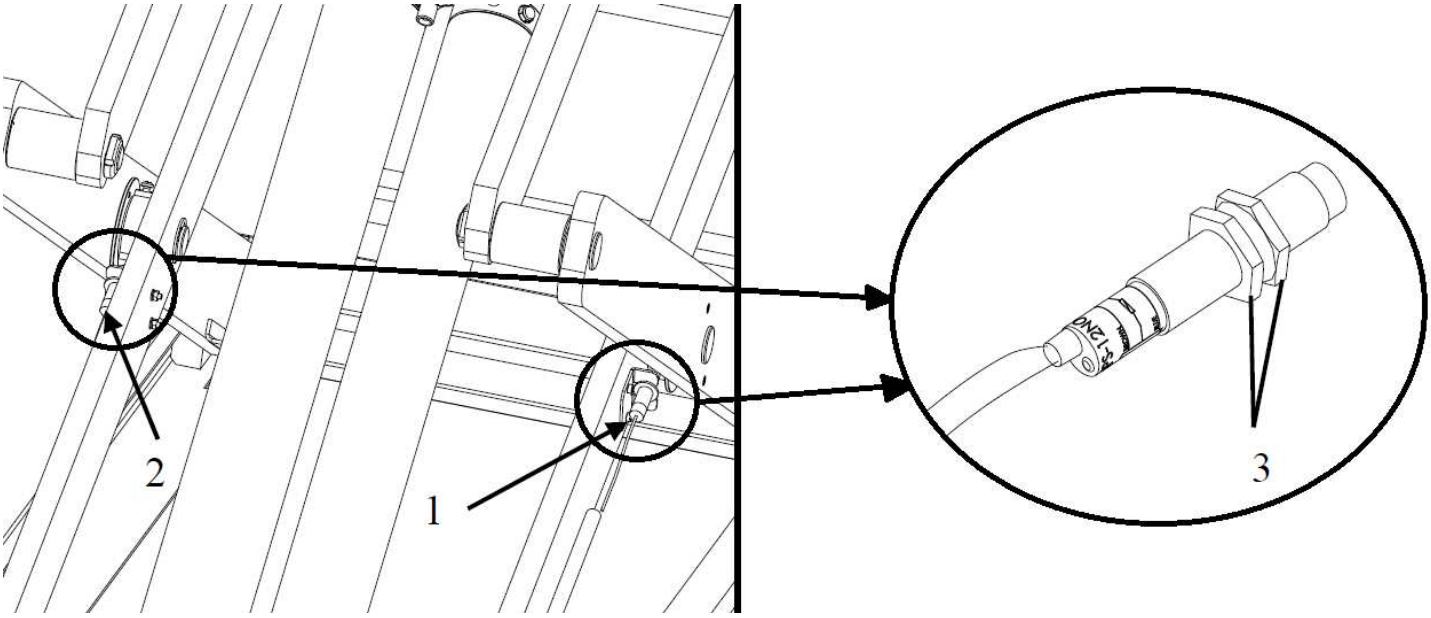
7. Correct adjustment of limit switch

    a. Position the lift at a height of 1.900 mm for adjusting the max. llifting height
    b. Loosen the nuts (3) of the limit switch and adjust it
    c. Retight the nuts (3) again
    d. Position the lift at a height of 400 mm for adjusting the CE-Stop
    e. Loosen the nuts (3) of the limit switch and adjust it
    f. Retight the nuts (3) again



8. Lifting under load

    a. Lift a load to a height of appr. 1.000 mm and check the synchronization, readjust if necessary.
    b. During further lifting keep on watching the synchronization.
    c. Lower the load and install the still missing covers resp. ramps

9. Fill in the enclosed checking book after positioning the lift.

⚠ This information will be needed in case of a possible service case.

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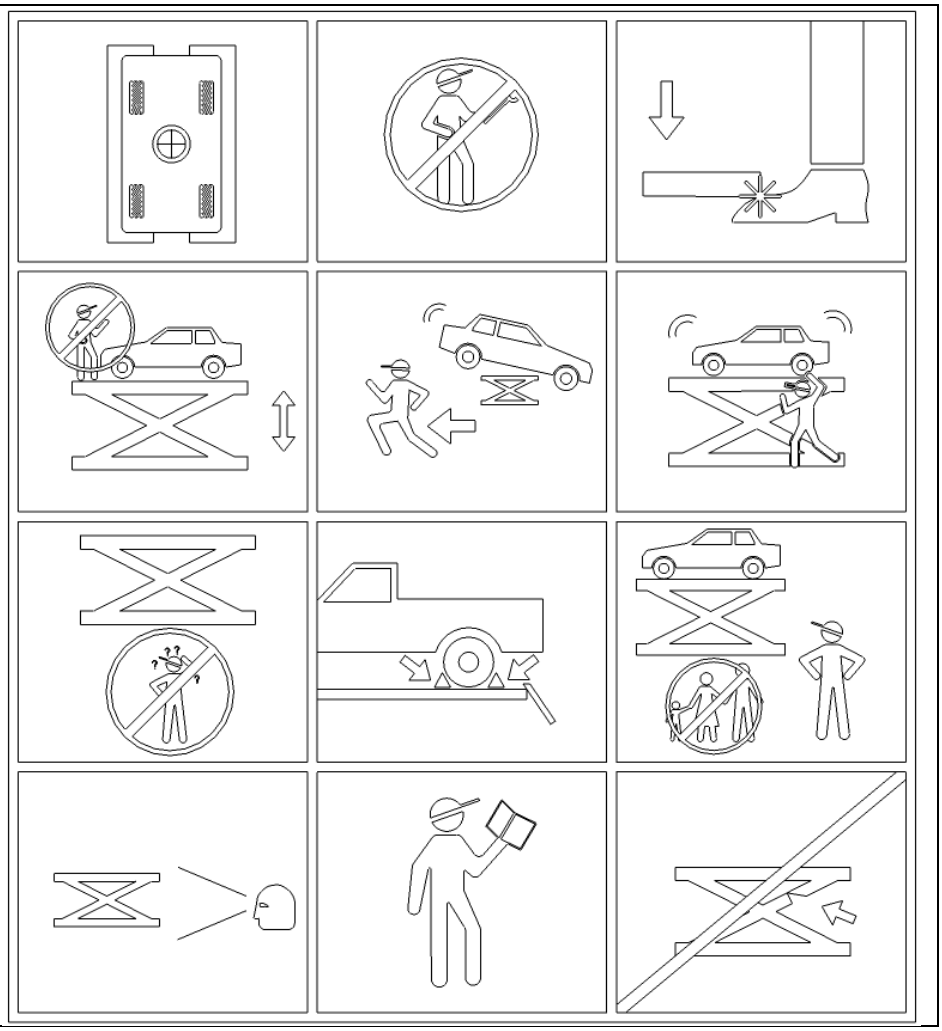
OPERATION

Safety instructions

1. Pay attention to the correct load distribution of the vehicle
2. It is not allowed to make any modifications on the lift
3. Leave the danger zone while lowering the lift
4. The danger zone must be kept free while lifting and lowering
5. In case of the vehicle drop down immediately leave the danger zone
6. Avoid heavy swinging movements of the lifted vehicle
7. A moving of the vehicle on the lift is not allowed
8. Only skilled personal is allowed to operate the lift
9. Use a protection against rolling down
10. Only authorized persons are allowed to enter the danger zone
11. For a secure working a proper maintenance and inspection is necessary
12. Read and understand the user´s manual before operate the lift
13. Do not work with damaged lifts



⚠ Damaged danger symbols have to be replaced.

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BTR-Nr. 0030 18.12.2012	Operation instructions Application and activities	Issue: Dezember 2010 signed on: 10.12.2012

APPLICATION

VEHICLE LIFT

DANGER FOR HUMAN AND ENVIRONMENT

- Falling down of load or parts
- Crush injuries during movement of lift and/or parts
- If system leaks it is possible that hydraulic oil gets into the environment

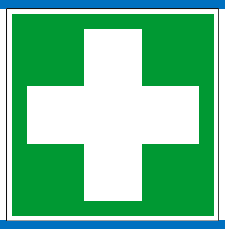
PRECAUTION AND RULES OF CONDUCT

- Observe the user´s manual
- Watch the lift
- Operation only by skilled personal
- Avoid positions with no means of escape in case of danger
- Keep in mind the maximum capacity of the lift
- Secure the vehicle against rolling away
- Check the functions daily before operation
- Do not put persons at risk during movement of lift
- Do not carry persons on the lift
- Leave the danger zone during lifting and lowering

BEHAVIOUR IN CASE OF ERROR AND DANGER

- In case of security relevant errors stop immediately the operation and secure it against use.
- Inform responsible person in case of defects.
- Remedy of deficiencies only by experts.

BEHAVIOUR IN CASE OF ACCIDENTS – FIRST AID



- Secure the scene of accident.
- Render first aid, inform first-aider and your boss._____
- Take care of the person injured.
- Place of first aid kit and first aid book: _____
- EMERGENCY CALL: _____
- Record all information in the first aid book

MAINTENANCE; DISPOSAL

- Maintenance works on the lift are made by: _____
- Responsible for disposal (e.g. used oil): _____

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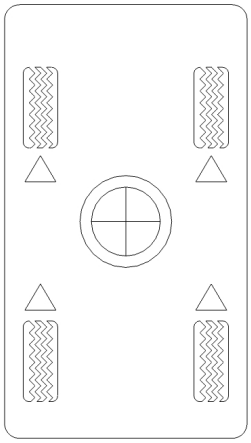
Utilization

The product is intended for lifting of vehicles. The corresponding technical data have to be observed.

1. Preparation
    a. ⚠ Read all safety instructions carefully before operating the lift.
    b. Lower the lift completely
    c. Position the vehicle centrical between the scissors, pay attention herewith to the load distribution.



    d. Put the rubber discs CENTRICAL under the original lifting points of the vehicle.

2. Lifting
    a. Switch on the lift with the main switch
    b. Lift the vehicle up to a height of 100-150 mm and stop the lifting by releasing the button LIFTING
    c. Check if the vehicle is secure on the lift
    d. Following lift further and observe the lifting process

3. Lowering
    a. Check before lowering if there are any obstacles under the car
    b. Press the button LOWERING
    c. After reaching athe CE-Stop the button LOWERING must be released and then pushed again.

4. Completion
    a. Lower the lift completely
    b. Remove the rubber discs
    c. Drive the vehicle from the lift

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MAINTENANCE

Reparation works are only allowed to be done by authorized service partners or, after contacting ATH, by the client.

⚠ Before maintenance and reparation works the lift must be disconnected from the electrical supply (main switch off, disconnect plug). Suitable precautions must be made against a re-start.

Works on the electrical parts of the lift respectively on the supply lines are only allowed to be done by experts/electricians.

Troubleshooting

Error	Possible reason	Remedy
Lift does not work		
	Main switch is off.	Switch the lift on
	There is no electrical connection	Check the power supply, if necessary repair it
	Fuses are burned	Replace
	A limit switch is defect	Check the switches and connections, if necessary replacing
No lifting		
	Wrong rotating direction of the motor	Change two phases on the main switch
	Not enough oil in the hydraulic circuit	Fill needed hydraulic oil (lift must be lowered)
	Button LIFTING does not react	Check the button and connection, if necessary replacing
	Lowering valve does not close	Check and clean the lowering valve, if necessary replacing
	The emergeny dumping screw closes not properly	Tighten the screw
	Filter on the pump is dirty	Check and clean
	Obstacle between light sensor	Remove the obstacle
	Reflector of light sensor is defect	Replace the reflector
	Scissor platforms have not the same height	Restore the synchronization
	Light barrier is not positioned correctly	Re-establish the correct position
No lowering		
	Control board defect	Replace control board
	Electromagnet on the lowering valve has no function	Check the function, if necessary replace
	Lowering valve does not open	Chec the lowering valve if it reacts, if necessary replace
	Button LOWERING defect	Check the button, if necessary replace
	Obstacle between light sensor	Remove the obstacle
	Reflector of light sensor is defect	Replace the reflector
	Scissor platforms have not the same height	Restore the synchronization
	Light barrier is not positioned correctly	Re-establish the correct position
Lift does not stop at CE-Stop		
	Limit switch (CE-Stop) is wrong adjusted resp. defect	Check the adjustment of the limit switch. In case of a defect limit switch replace it.
Lift does not raise synchronical		
	Water or air in hydraulic circuit	Bleed hydraulic circuit
	Damaged cylinder sealings	Check and if necessary replace

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Lift does not raise the indicated load		
	Not enough hydraulic oil	Check oil level (lift is lowered), if necessary refill
	Pump is defect	Check the pump, if necessary replace
	Pressure control valve wrong adjusted	Adjust correctly
Lift raises or lowers jerkily		
	Leakage, water or air in hydraulic circuit	Bleed the hydraulic system. If necessary eliminate leakage
	Filter of the pump is dirty	Check and clean if necessary
	Pump sucks air	Check the sealing and replace if necessary
Lift does not stop at the max. height		
	Limit switch is wrong adjusted resp. defect	Check adjustment of limit switch Replace a defect limit switch

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Maintenance plan

Interval:	Components:	Check:
Every day	Rubber discs	Wear and deformation
	Lift	Obvious damages
	Lift	Cleanness
	Hydraulic	Leak-tightness
	Safety devices	Obvious damages
	Paintwork	Scratches (Danger of corroision)
Weekly	Air cylinder	Function and wear
	Cylinder	Function and wear
Monthly	Anchor bolts	Torque (acc. manufacturer)
Quarterly	Axes and safety notches	Wear and cleanness
	Cylinder (dust sealing)	Wear and deformation
	Hydraulic circuit	Wear and leakage
	Hydraulic pump	Unusual noise
Half-yearly	Electrical components	Damages
	Hydraulic oil	Check oil level and, if necessary, refill Dirt or oil aging
Yearly	Cylinder sealing	Oil loss and deformation
	Main check (by expert)	All components are checked for damages
Every 3 years (recommended)	Hydraulic oil	Exhange
	Hydraulic system	Cleaning
Every 6 years	Hoses	Exchange

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Lubrication plan

Interval:	Components:	Grease type
Monthly	Sliding guides	Multi-purpose grease
Quarterly	Axes	Multi-purpose grease

Maintenance- and service instructions

Check oil level
1. Lower the lift completely
2. Remove tank cap
3. Check the oil level on the tank cap

Exchanging oil
1. Lower the lift completely
2. Remove the oil filling screw
3. Remove carefully the oil drain screw and drain the oil into a suitable recipient

Clean the tank and oil filter to avoid an early pollution of the hydraulic oil.

4. After the complete draining of the oil close the tank with the oil drain screw
5.Fill the new oil into the oil tank
6. Lift and lower the lift and check, if the max. height is still correct. If necessary refill carefully

The used oil must be disposed in consideration of all legal regulations.

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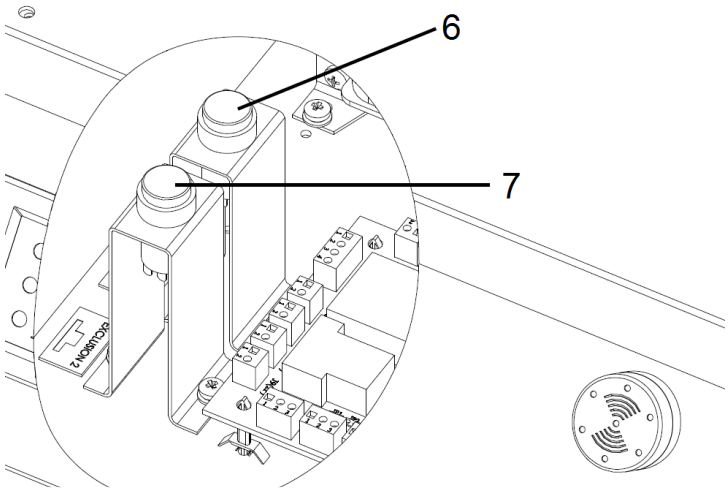
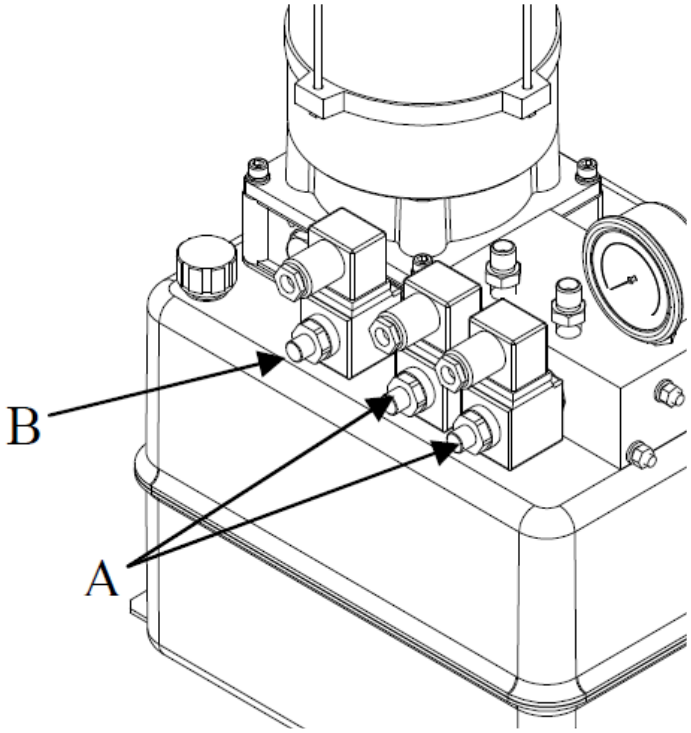
Bleeding of hydraulic system

1. After the first filling with hydrauli oil the button LIFTING must be pressed for appr. 30 seconds for pumping the oil into the hydraulic system.
2. Raise the lift until the max. lifting height. (this height is **not** allowed to be over 1.900 mm!!)
3. Open the upper cover of the control switch and press the button for bridging the limit switch (6) and the button for bridging the light barrier (7) for a few seconds until both scissor platforms are at the same height.
4. Lower the lift completely by pressing the button LOWERING.
5. Repeat the lifting and lowering process at least twice times more.



Emergency lowering in case of power breakdown

1. Switch the lift off with the main switch and secure it agains a restart.
2. Open the front cover of the control box
3. Loosen the screw of the safety valves (A) by turning counterclockwise
4. The lowering of the lift will be activated by loosening the screw of the lowering valve (B). !!! ATTENTION: With this screw the lowering speed can be adjusted!!!
5. After the complete lowering of the lift all screws must be retightened again.



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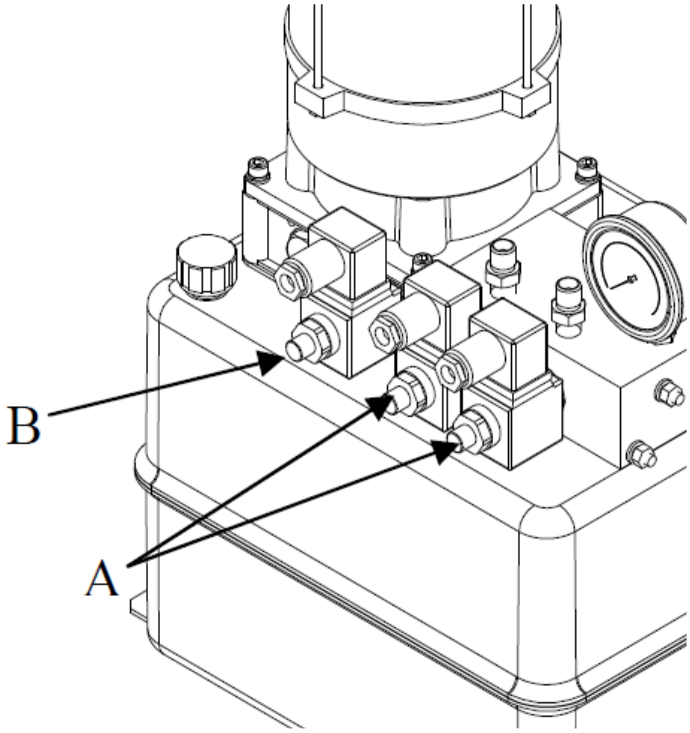
Adjustment of the valve for lowering speed

Accelerating of the lowering speed by turning the screw of the lowering valve (B) COUNTERCLOCKWISE.

Decelerating of the lowering speed by turning the screw of the lowering valve (B) CLOCKWISE.



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DECLARATION OF CONFORMITY

Seriennummer / Serial number:

Konformitätserklärung
Declaration of conformity
Déclaration de conformité
Declaración de conformidad

Für / for / pour / para KFZ-Hebebühne Car-lift Ponts élévateurs Elevador	Typ / Type / Type / Tipo **ATH DSH 3000F2** **ATH DSH 3000FI2**
Wurden folgende einschlägige Bestimmungen beachtet The following EG-directives are considered Les Directives suivantes de l'Union européenne ont été respectées Los siguientes directivas pertinentes de la Unión Europa fuen cumplido	**2006/42/EC (Machine-Directive)**
Folgende harmonisierten Normen und Vorschriften wurden eingehalten The following harmonized standards are applied Les normes harmonisées suivantes ont été appliquées Los siguientes normas y reglamentos armonizados fuen cumplido	**DIN EN 1493:2010 (Machine-Directive)** **DIN EN 60204-1: 2006+A1:2009 (Low voltage directive)**
Hersteller Manufacturer Fabricant Fabricante	**ATH-Heinl GmbH &Co. KG** **Kauerhofer Straße 2** **D-92237 Sulzbach-Rosenberg** **Germany**
Prüfinstitut Institut of Quality Institut de qualité Instituto de calidad	**CCQS UK Ltd.,** **Level 7, Westgate House, Westgate Road,** **London W5 1YY UK** **ENGLAND**
Referenznummer der technischen Daten: Reference number for the technical data: Numéro de référence des données techniques: Número de referencia de los datos técnicos:	**TF-C-0106-12-02-16-5A**
Nummer des Zertifikats: Number of the certificate: Numéro du Certificat Número del certificado	**CE-C-0106-12-02-16-5A**

Hiermit wird bestätigt, dass die oben bezeichneten Maschinen den genannten EG-Richtlinien entsprechen.
Herewith we confirm that the above named machines are according to the named EC-directives.
Nous certifions par la présente la conformité des machines décrites ci-dessus aux Directives de l'Union européennes citées.
Confirmamos con esto de que la mercancía denominada arriba cumple las directivas llamadas de la Unión Europea.

ATH-Heinl GmbH &Co. KG
Kauerhofer Straße 2
D-92237 Sulzbach-Rosenberg
Germany
Im April 2012

ATH-Heinl GmbH & Co. KG/ Hans Heinl (Geschäftsführer)

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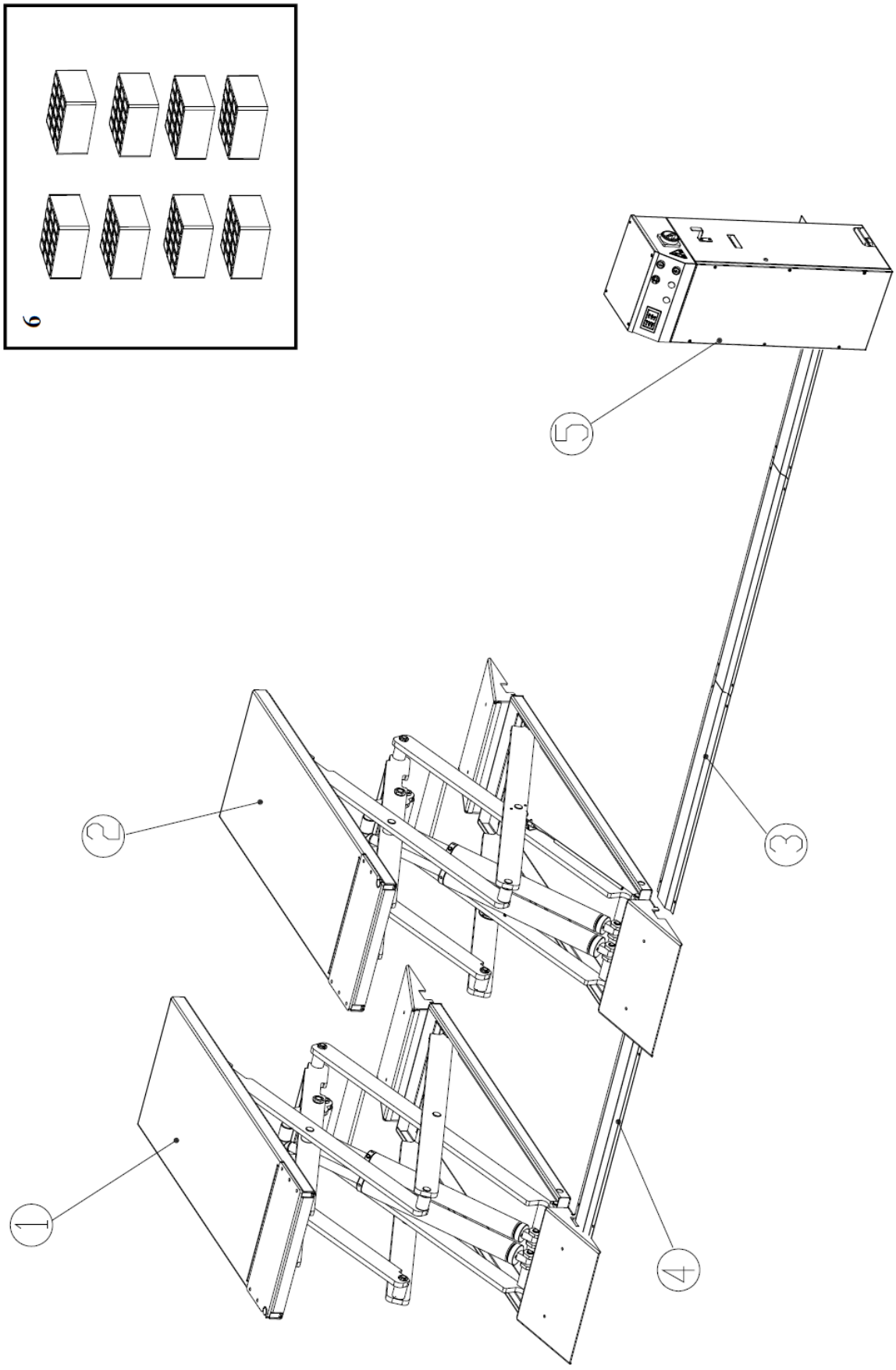
ATH-Heinl

SPARE PART BOOK

www.ath-heinl.de



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#	ART.#	#	DESCRIPTION	REMARK	x
			LIFT		
1	YA-B1TG01		Platform P1		1
2	YA-B1TG02		Platform P2		1
3	YA10-1298.02		Cover for hydraulic hose		3
4	YA10-1298.01		Cover for hydraulic hose		1
5	7230D13000	HBP6021/HBP6023	Control unit		1
6	606033	HGA8407	Rubber block	115X100X55	8

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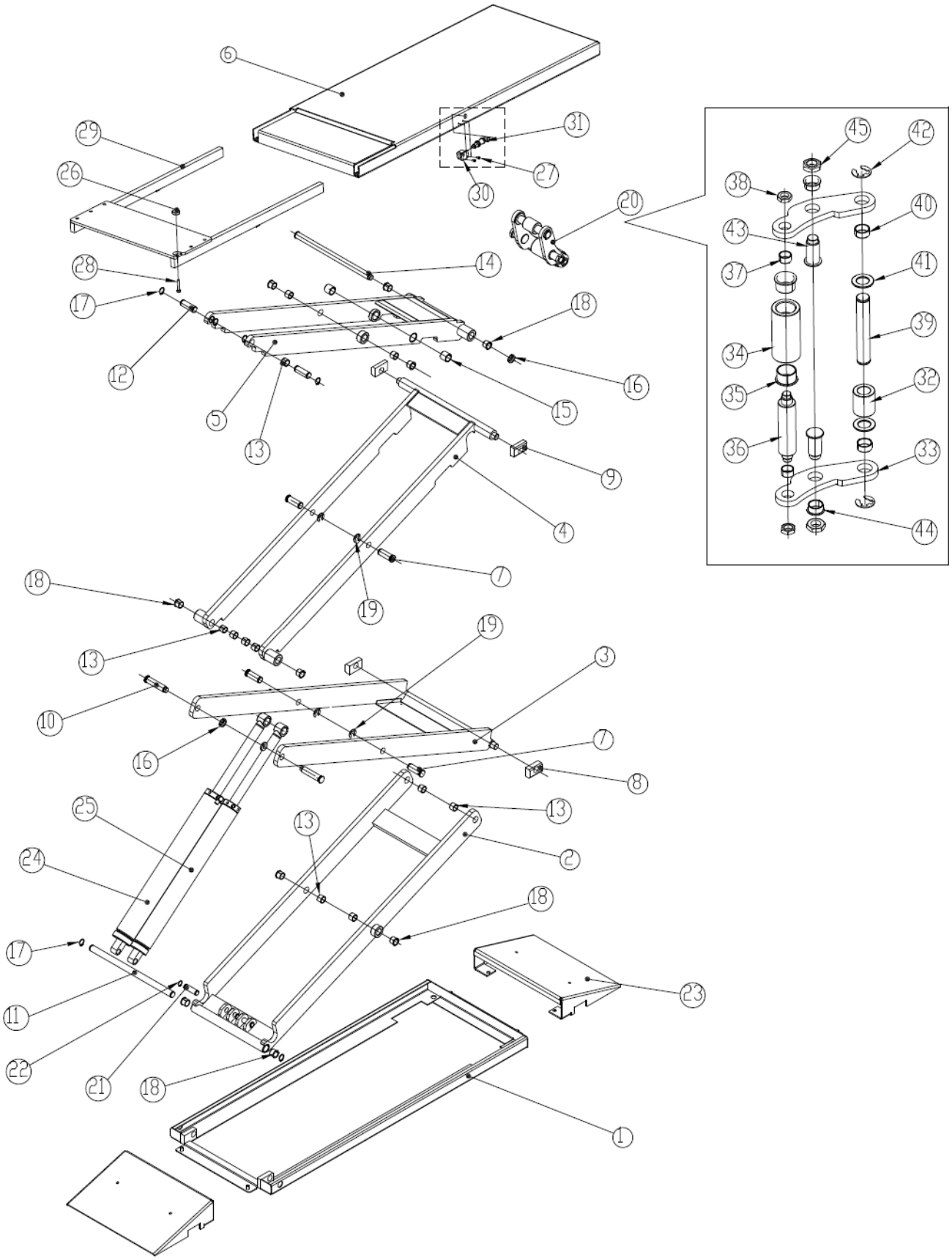

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		Art #	PLATFORM P1		
1	YA10-1283		Base frame		1
2	YA10-1284TG		Lower – innter scissor part		1
3	YA10-1285		Lower – outer scissor part		1
4	YA10-1286T		Upper – outer scissor part		1
5	YA10-1287TG		Upper – inner scissor part		1
6	YA10-1308BG		Platform		1
7	YA20-0472	HSW3210	Shaft		4
8	YA20-0473	HGS3150	Nylon sliding guide below		2
9	YA20-0473B	HGS3152	Nylon sliding guide above		2
10	YA20-0474	HSW3211	Shaft		2
11	YA20-0478	HSW3212	Shaft		1
12	YA20-0479		Shaft		2
13	210008		Copper bushing	2520	12
14	YA20-0480	HSW3214	Shaft		1
15	210015	HLB3030	Copper bushing	3030	2
16	204041	HSM2001	Nut	M20X1 - GT/T812	3
17	212004		Seeger ring	D.25 - GB/T894.2	6
18	210041	HMB2520	Copper bushing	2520	10
19	211003	HSR2315	Seeger ring	D.19 - GB//T896	4
20	YA-FBT		Reversing lever complete		1
21	YA20-0476T	HWZ2310	Shaft for cylinder support below		2
22	212005	HSR2317	Seeger ring	D.20 - GB/T894.2	4
23	YA10-1530BT	631008	Ramp		2
24	YAY-70-0	HHZ6150	Main hydraulic cylinder		1
25	YAY-60-0	HHZ6152	Secondary hydraulic cylinder		1
26	YA20-0362B	HSM8538	Nut		1
27	206024		Screw	M5X10 - GB/T818	2
28	201039		Screw	M8X45	1
29	YA10-1536B		Extension		1
30	33M-C400	HHL8433	Support for light barrier		1
31	507001	HLS8433	Light barrier		1
32	YA20-0481T	HAH3110	Nylon distance holder		1
33	YA10-1288		Reversing lever arm		2
34	YA20-0483	HAB3010	Bushing		1
35	210043	HMB4025	Copper bushing	4025	2
36	YA20-0592	HSW3215	Shaft		1
37	210039		Copper bushing	2515	2
38	204041	HSM2001	Nut	M20X1 - GB/T6184	2
39	YA20-0477	HWZ2312	Shaft for cylinder support above		1
40	210040	HMB3015	Copper bushing	3015	2
41	YA20-0615T	HBS8610	Washer		2
42	211019	HSR2308	Seeger ring	D.24 - GB/T896	2
43	YA20-0593	HSW3216	Shaft		2
44	210042	HMB3015K	Copper bushing	3015	2
45	204021	HSM2515	Nut	M25X1.5 - GB/T6184	2

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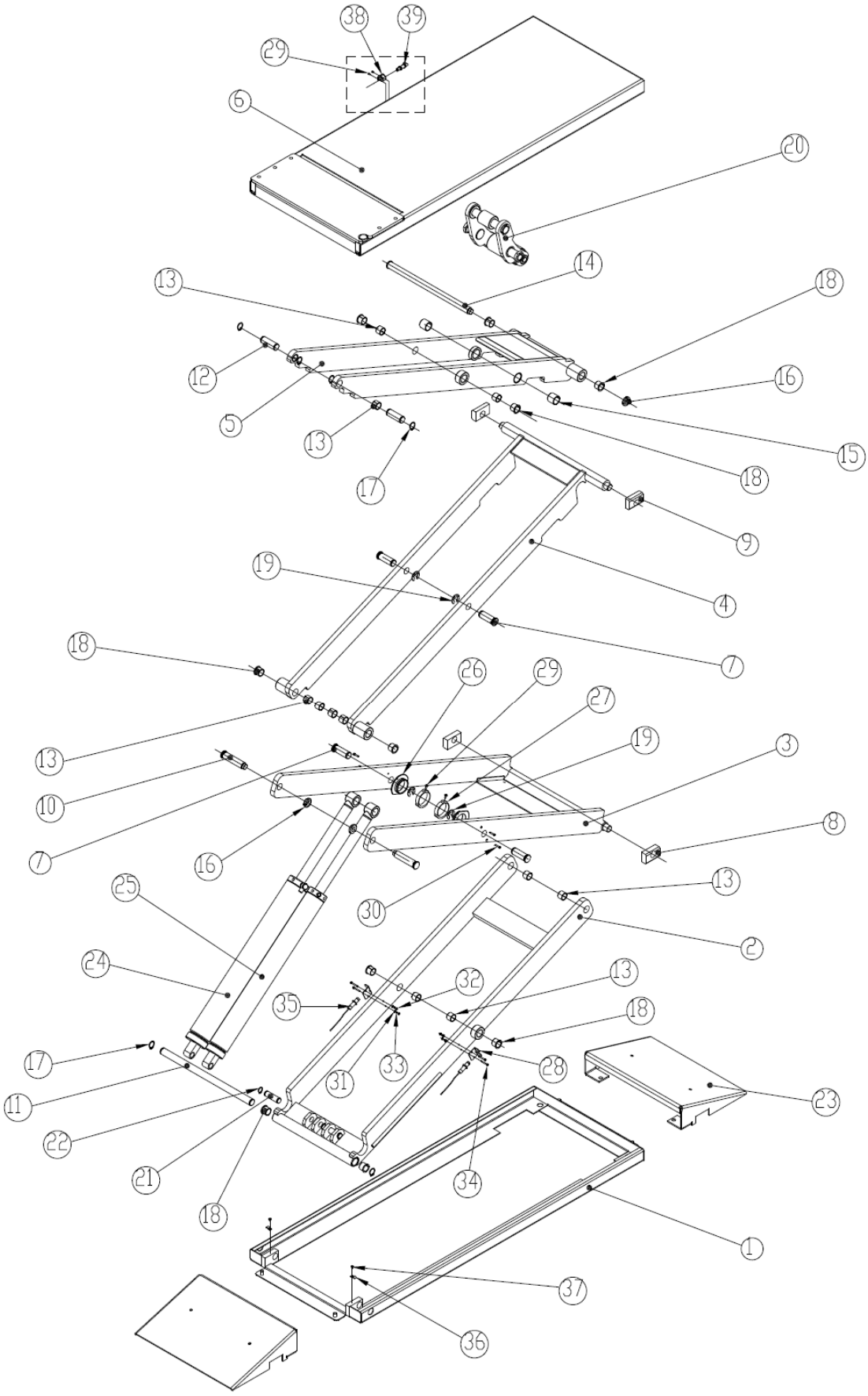

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		Art #	PLATFORM P2		
1	YA10-1283		Base frame		1
2	YA10-1284TG		Lower – innter scissor part		1
3	YA10-1285		Lower – outer scissor part		1
4	YA10-1286T		Upper – outer scissor part		1
5	YA10-1287TG		Upper – inner scissor part		1
6	YA10-B11G		Platform		1
7	YA20-0472	HSW3210	Shaft		4
8	YA20-0473	HGS3150	Nylon sliding guide below		2
9	YA20-0473B	HGS3152	Nylon sliding guide above		2
10	YA20-0474	HSW3211	Shaft		2
11	YA20-0478	HSW3212	Shaft		1
12	YA20-0479		Shaft		2
13	210008		Copper bushing	2520	12
14	YA20-0480	HSW3214	Shaft		1
15	210015	HLB3030	Copper bushing	3030	2
16	204041	HSM2001	Nut	M20X1 - GT/T812	3
17	212004		Seegering	D.25 - GB/T894.2	6
18	210041	HMB2520	Copper bushing	2520	10
19	211003	HSR2315	Seeger ring	D.19 - GB//T896	4
20	YA-FBT		Reversing lever complete		1
21	YA20-0476T	HWZ2310	Shaft for cylinder support below		2
22	212005	HSR2317	Seeger ring	D.20 - GB/T894.2	4
23	YA10-1530BT	631008	Ramp		2
24	YAY-70-0	HHZ6150	Main hydraulic cylinder		1
25	YAY-60-0	HHZ6152	Secondary hydraulic cylinder		1
26	YA10-2002T	HRA2510	Ring support		2
27	YA10-2003T	HRE2510/ HRE2812	Ring for limit switch		2
28	YA10-2001T		Holder for limit switch		2
29	206024		Screw	M5X10 - GB/T818	4
30	202005		Screw	M4X25 - GB/T70.1	4
31	205002		Washer	D.4 - GB/T97.1	4
32	203002		Nut	M4 - GB/T6170	4
33	208002		Lock washer	D.4 - GB/T93	4
34	202006		Screw	M4X30 - GB/T70.1	4
35	505002	HES8413	Limit switch		2
36	YA10-2004T		U-Bolt		2
37	206030		Screw		2
38	33M-C400	HHL8433	Support for light barrier		1
39	507019	HLS8435	Light barrier		1

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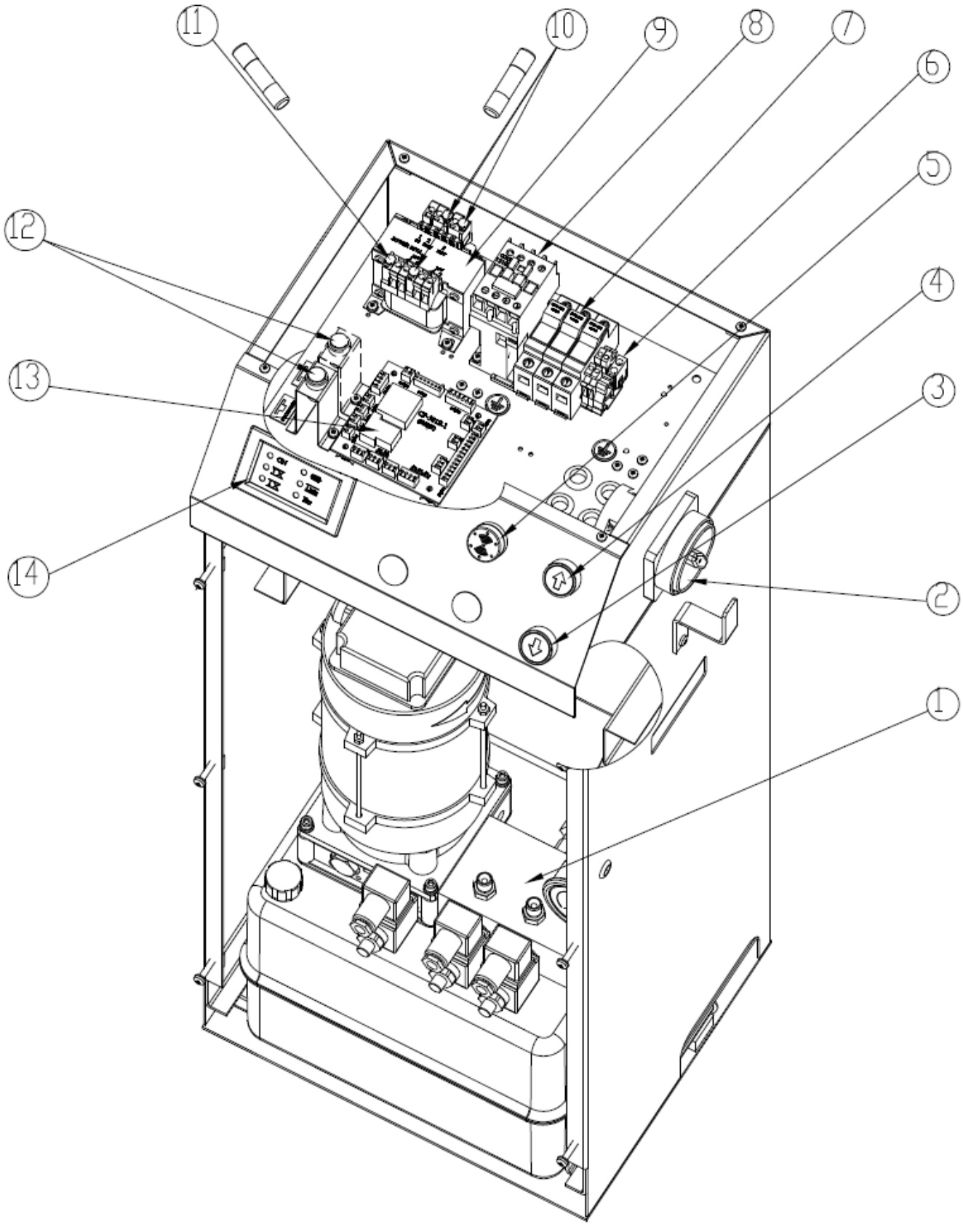

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		Art #	CONTROL UNIT		
1	BZ-YK2Y-N		Hydraulic aggregate		1
2	505022	HHS8253	Main switch	HZ5/2-20A	1
3	502053		Button LOWERING	LA37G-EA21-11	1
4	502052	HBT8254	Button LIFTING	LA37G-EA21-10	1
5	502021	HSG7110	Buzzer	DC24V	1
6	507002	HKL8256	Connection block		1
7a	504009	HSE7216	Fuse	380V/400V - 16A/10X38	3
7b	504013	HSH8258	Fuse	220V/230V - 32A/10X38	2
8	501044	HMS8259	Motor contactor	1210/DC24V	1
9a	503066		Transformer	80VA 220/380V	1
9b	503072		Transformer	80VA 230/400V	1
10	504016	HSS8261	Fuse	1A 5X20	3
11	504004		Fuse	4A 5X20	1
12	502017	HLT8264	Bridging buttons	LA16Y-11-Y	1 (2)
13	507038	HSP8268	Control board	CP-501B.1	1
14	507011	HSL8264	Display	CP-501D	1

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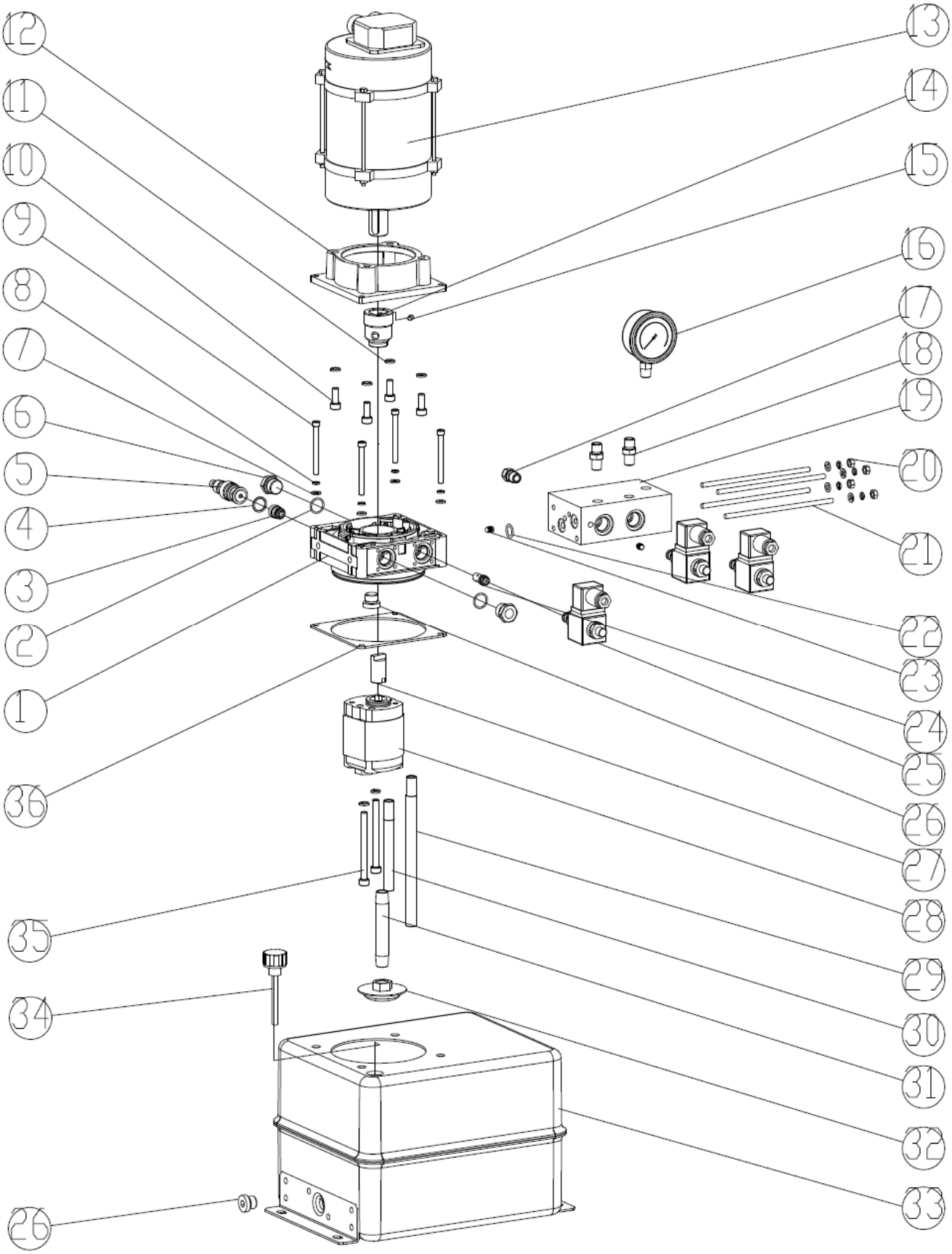

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		Art #	HYDRAULIC AGGREGATE		
1	BZ-ZB-Y	HHB8301	Hydraulic block		1
2	309054	HHD8331	O-Ring	17.0X1.80 - GB3452.1	2
3	307067	HRV8318	Non-return valve		1
4	302018	HKD8322	Copper disc	16X20	1
5	307010	HDV8315	Pressure control valve		1
6	BZ-SD-01	HHA8308	Blind bolt		2
7	205006	HBS8712	Washer	D.6 - GB/T97.1	8
8	208005	HFR2832	Lock washer	D. 6 - GB/T93	8
9	202036	HSS0665	Screw	M6X65 - GB/T70.1	4
10	202045	HSS0820	Screw	M8X20 - GB/T70.1	4
11	208006	HFR2812	Lock washer	D.8 - GB/T93	6
12	BZ-DJ-1B	HMF8303	Motor flange		1
13a	509070		Motor	220V/380V/50HZ/3PH 2.6KW	1
13b	509075		Motor	230V/400V/50HZ/3PH 2.6KW	1
13c	509039		Motor	220V/380V/60HZ/3PH 2.6KW	1
13d	509071		Motor	220V/50HZ/1PH 2.2KW	1
13e	509068		Motor	230V/50HZ/1PH 2.2KW	1
13f	509092		Motor	220V/60HZ/1PH 2.2KW	1
14	BZ-ZT24	HMA8304	Motor adapter		1
15	209042		Screw	M6X8 - GB/T80	1
16	305054	HHM8314	Manometer	400bar 1/4	1
17	306079	HHA8336	Connection	1/4	1
18	302005	HHA8327	Connection	1/4 (1BT-04SP)	2
19	BZ-W-YK2Y		Hydraulic distributor		1
20	203004	HSM0615	Nut	M6 - GB/T6170	4
21	213032		Screw	M6X160 - GB/T899	4
22	309019	HHD8332	O-Ring	18X2.4 - GB1235	2
23	305001	HBS6214	Blind bolt	QD07	2
24	307006	HVS8319	Lowering valve	D.2.5	1
25	307048	HMS8317	Elekctro magnet for lowering valve	DC24V	3
26	305018	HAS8325	Blind bolt	3/8	2
27	BZ-BJ36	HPA8305	Pump adapter		1
28a	301015	HPZ8311	Pump	4.8cc for 3PH motor	1
28b	301008	HPZ8312	Pump	2.1cc for 1PH motor	1
29	BZ-G14X200		Oil return pipe		1
30	BZ-G14X120	HAR8307	Oil return pipe		1
31	BZ-G18X100		Oil suction pipe		1
32	305010	HHF8323	Oil filter	3/8	1
33	HK2-0200	HAT8309	Oil tank		1
34	305026	HTV8324	Tank cap with oil level indicator	3/8	1
35	202053		Screw	M8X90 - GB/T70.1	2
36	BZ-F-01	HAD8310	Sealing		1

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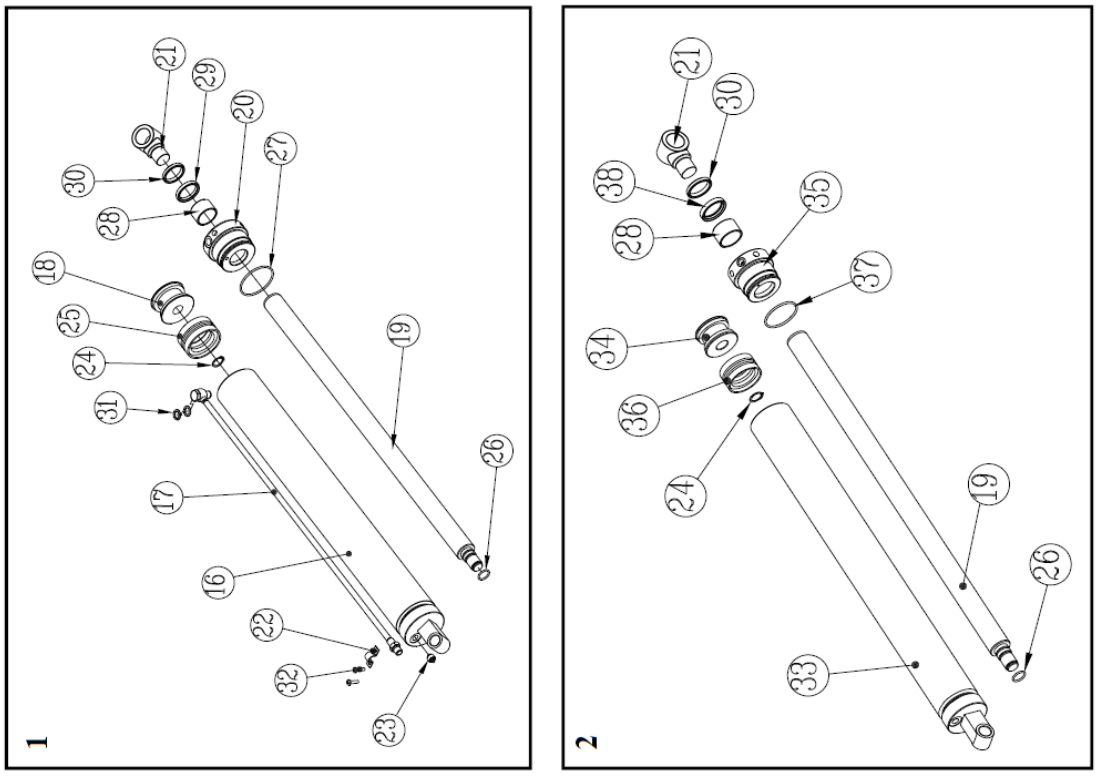

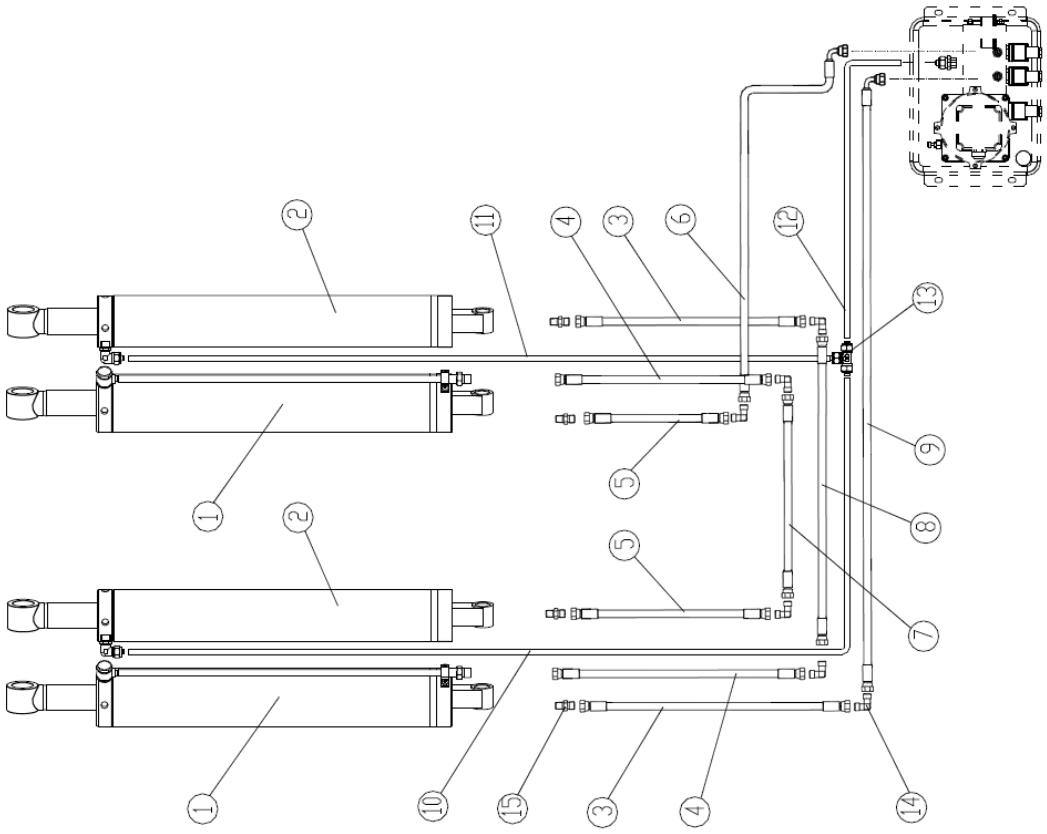

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		Art #	HYDRAULIC SYSTEM		
1	YAY-70-0	HHZ6150	Main hydraulic cylinder		2
2	YAY-60-0	HHZ6152	Secondary hydraulic cylinder		2
3	7230-ZZ210		Hydraulic hose	L=210	2
4	7230-ZZ195		Hydraulic hose	L=195	2
5	7230-ZZ180		Hydraulic hose	L=180	2
6	7230-ZW2870		Hydraulic hose	L=2870	1
7	7230-ZZ1300		Hydraulic hose	L=1300	1
8	7230-ZZ1400		Hydraulic hose	L=1400	1
9	7230-ZW4200		Hydraulic hose	L=4200	1
10	306019		Hose	10X6.5 L=2300	1
11	306019		Hose	10X6.5 L=900	1
12	306019		Hose	10X6.5 L=3000	1
13	306081		T-connection	10	1
14	303010	HZA8365	90°connection	1/4 (1B9-04SP)	6
15	302005	HHA8327	Connection	1/4 (1BT-04SP)	4
16	YAY-70-10		Cylinder tube of main cylinder		1
17	YA-70-20	HHS8652	Oil hose		1
18	YAY-70-3	HZK8810	Piston		1
19	YA-70-4		Piston rod		2
20	YAY-70-5	HZV8710	Top plate		1
21	YA-70-6	HZA8468	Cylinder support above		2
22	MS100-80-8		U holding sheet		1
23	307021	HRV8512	Non-return valve	1/4	1
24	212005	HSR2317	Seeger ring	D.20 - GB/T894.1	2
25	312028	HZD8892	Sealing	70X58X20.5	1
26	312014		O-Ring	24X2.4 - GB1235	2
27	309050	HZD8692	O-Ring	70X3.1 - GB1235	1
28	305006	HZD8507/HZD8558/HZD8677	Guide ring	36X25X2.5 - GB/T15242.2	2
29	310011		Sealing	36X46X6	1
30	311016	HZD8758	Scraper	36X44X5	2
31	313001		Washer	1/4	2
32	206024		Screw	M5X10 - GB/T818	2
33	YAY-60-10		Cylinder tube for secondary cylinder		1
34	YAY-60-3	HZK8687	Piston		1
35	YAY-60-5	HZV8698	Top plate		1
36	312027	HZD8722	Sealing	60X48X20.5	1
37	309032	HZD8712	O-Ring	60X3.1 - GB1235	1
38	310031	HZD8699	Sealing	36X46X8	1

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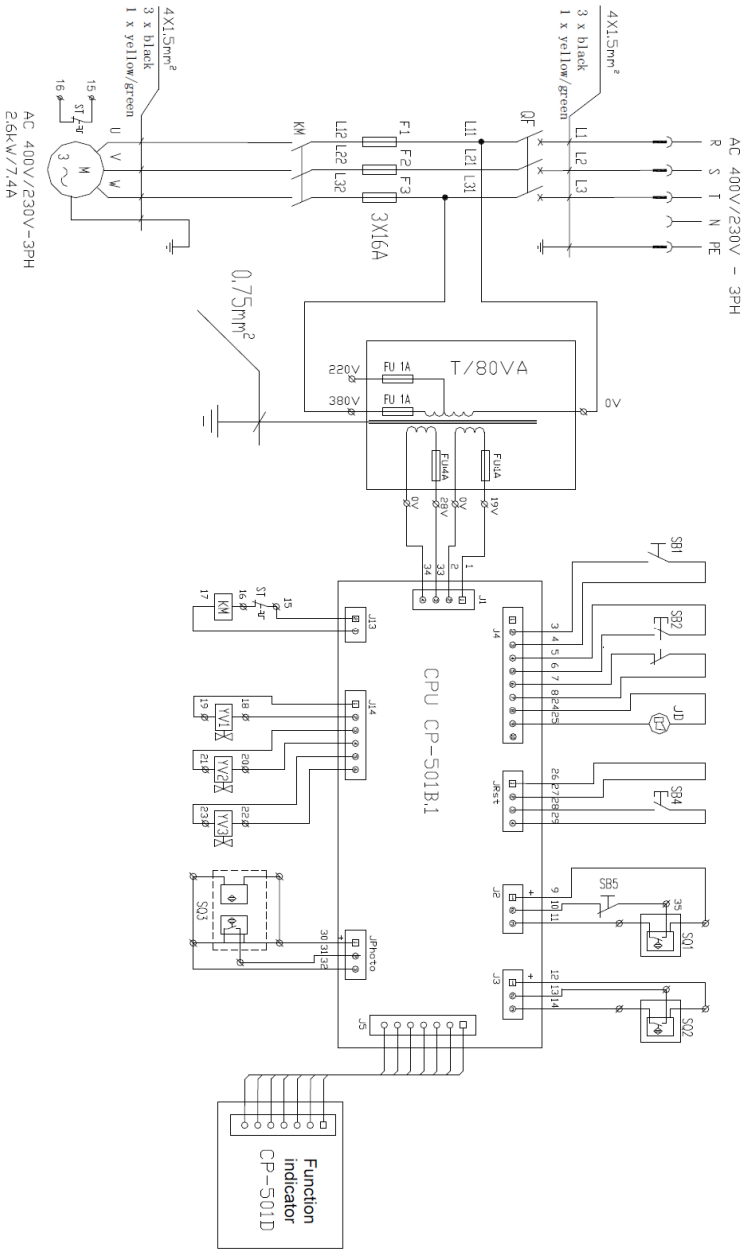
APPENDIX

Electric diagram



QF	Power switch	M	Motor	ST	Thermal relay
T	Transformer 80VA	KM	Contactor DC	YV1	Lowering solenoid valve
YV2	Safety solenoid valve – P1	YV3	Safety solenoid valve– P2	SB1	Lifting button
SB2	Lowering/final lowering button	SB4	Photocell pass-by button	SB5	Override button
SQ1	Top limit switch	SQ2	Safety height limit switch	SQ3	Photocell
JD	Beeper				

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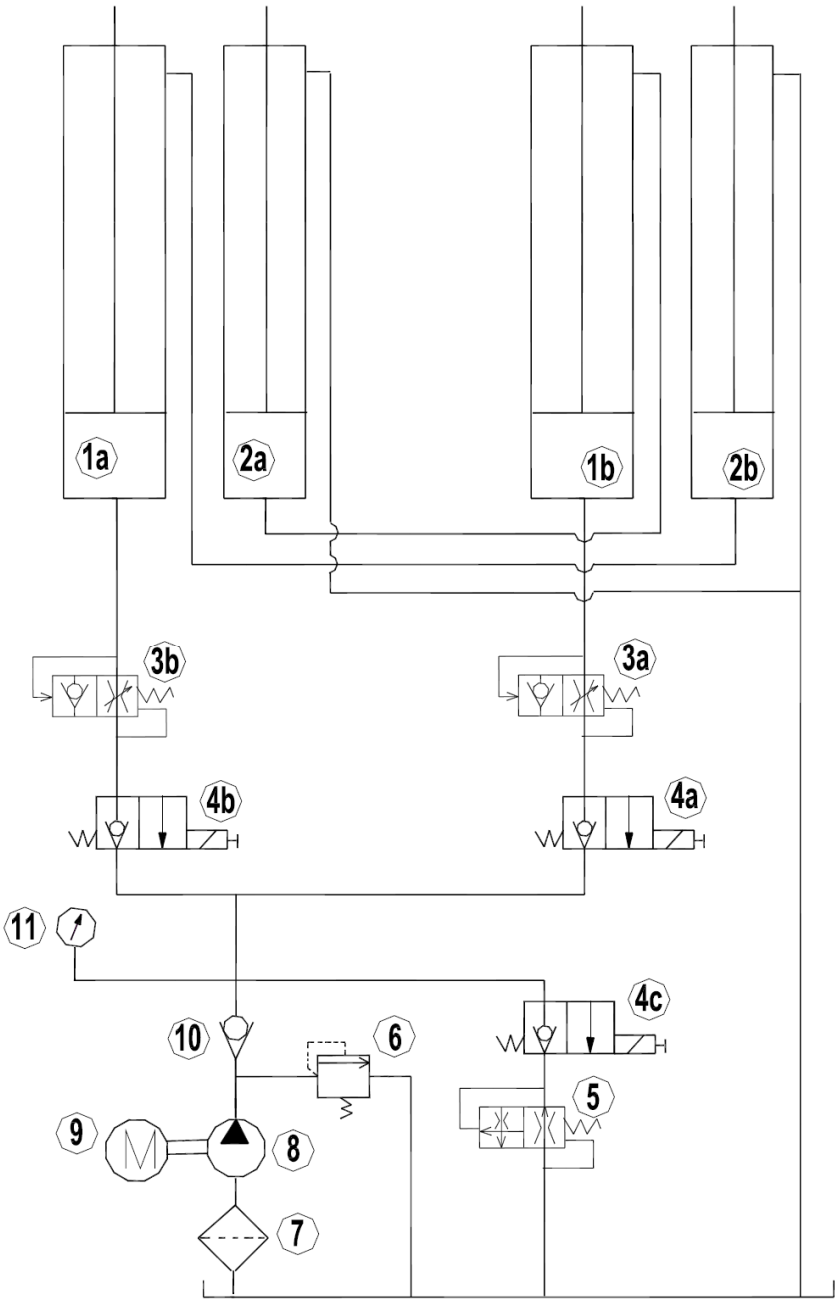
Hydraulic diagram



1a	Platform P1 master cylinder	1b	Platform P2 master cylinder	2a	Platform P1 slave cylinder
2b	Platform P2 slave cylinder	3a	Parachute valve - P2	3b	Parachute valve - P1
4a	Safety solenoid valve – P2	4b	Safety solenoid valve – P1	4c	Lowering solenoid valve
5	Lowering control valve	6	Maximum pressure valve	7	Oil filter
8	Gear pump	9	Motor	10	Non return valve
11	Pressure gauge				

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GARANTIEKARTE/WARRANTY NOTE

Fachhändler Anschrift / Dealer address:

Fima (ggf. Kundennummer) / Company (evtl. Customer Number)

Ansprechpartner / Contact person

Straße / Street:

PLZ & Ort / ZIP code & Town:

Tel. & Fax:

e-Mail:

Kunden Anschrift / Customer address:

Fima (ggf. Kundennummer) / Company (evtl. Customer Number)

Ansprechpartner / Contact person

Straße / Street:

PLZ & Ort / ZIP code & Town:

Tel. & Fax:

e-Mail:

Hersteller & Modell/ Manufacturer & model	**Seriennummer / Serial number**	**Baujahr / Year of manufacture**	**Referenz-Nummer / Reference number**

Beschreibung der Meldung / Description of the message:

Beschreibung der benötigten Ersatzteile / Description of required spare parts:

Ersatzteil / Spare part	**Artikelnummer / Article number**	**Menge / Quantity**

WICHTIGER HINWEISE / IMPORTANT NOTES:
Schäden, die durch unsachgemäße Handhabung, unterlassene Wartung oder mechanische Beschädigung entstehen, fallen nicht in die Gewährleistung. Für Anlagen, die nicht durch einen zugelassenen Monteur der Fa. ATH montiert wurden, beschränkt sich die Gewährleistung auf die Bereitstellung der erforderlichen Ersatzteile.

Damage caused by improper handling, lack of maintenance or mechanical damage, does not fall into the warranty. For machines that are not installed by a licensed technician from the company ATH, the warranty is limited to the provision of necessary spare parts.

Transportschäden / Damages in transit:

☐ Offener Mangel (Sichtbare Transportschäden, Vermerk auf Lieferschein des Spediteurs, Kopie des Lieferscheins und Fotos umgehend zu ATH-Heinl senden)
Obvious defect (note on carrier's delivery note, a copy of delivery note, Photos of the delivery have to be sent immediately to ATH-Heinl)

☐ Versteckter Mangel (Transportschaden wird erst beim Auspacken der Ware festgestellt, Schadensanzeige mit Bildern innerhalb 24 Stunden an ATH-Heinl senden)
Latent defect (Shipping damage is discovered upon unpacking the goods, send damage report with pictures within 24 hours to ATH-Heinl)

Ort & Datum / Place & date

Unterschrift & Stempel / Sign & stamp

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Product warranty
- Five year on equipment structure
- For power units, hydraulic cylinder and all other wear parts as turntables, rubber plates, ropes, chains, valves, switches and so on the warranty is limited to one year in case of ordinary condition/use.
- ATH-Heinl repairs or replaces the returned parts within warranty time after own investigation

The warranty does not extend to ...
- deficencies caused by ordinary wear, misuse, transport damages, improper installation, voltage or missing needed maintenance .
- damages caused by neglect or failure to comply with the stated instructions in this user´s manual and / or other enclosed instructions.
- ordinary wear of single parts which require a service to maintain the product in a safe operating condition.
- all components which were damaged during transport.
- other components which are not explicitly listed but are handled as general wear parts.
- water damages caused e.g. by rain, excessive humidity, corrosive environment or other contaminants.
- blemishes that do not affect the function.

WARRANTY DOES NOT APPLY WHEN WARRANTY NOTE HAS NOT BEEN SENT TO ATH-HEINL.

It should be noted that warranty is excluded for any damage or malfunction caused by non-observance of maintenance and adjustment works (according to operation instructions and/or instructions), faulty electrical connections (rotating field, rated voltage, fuse protection) or improper use (overload, outdoor installation, technical changes)!

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ATH-Heinl

CHECKING BOOK
VEHICLE LIFT

www.ath-heinl.de

This checking book is an important part of the user's manual respectively the lift.
!!! READ AND RETAIN CAREFULLY!!!

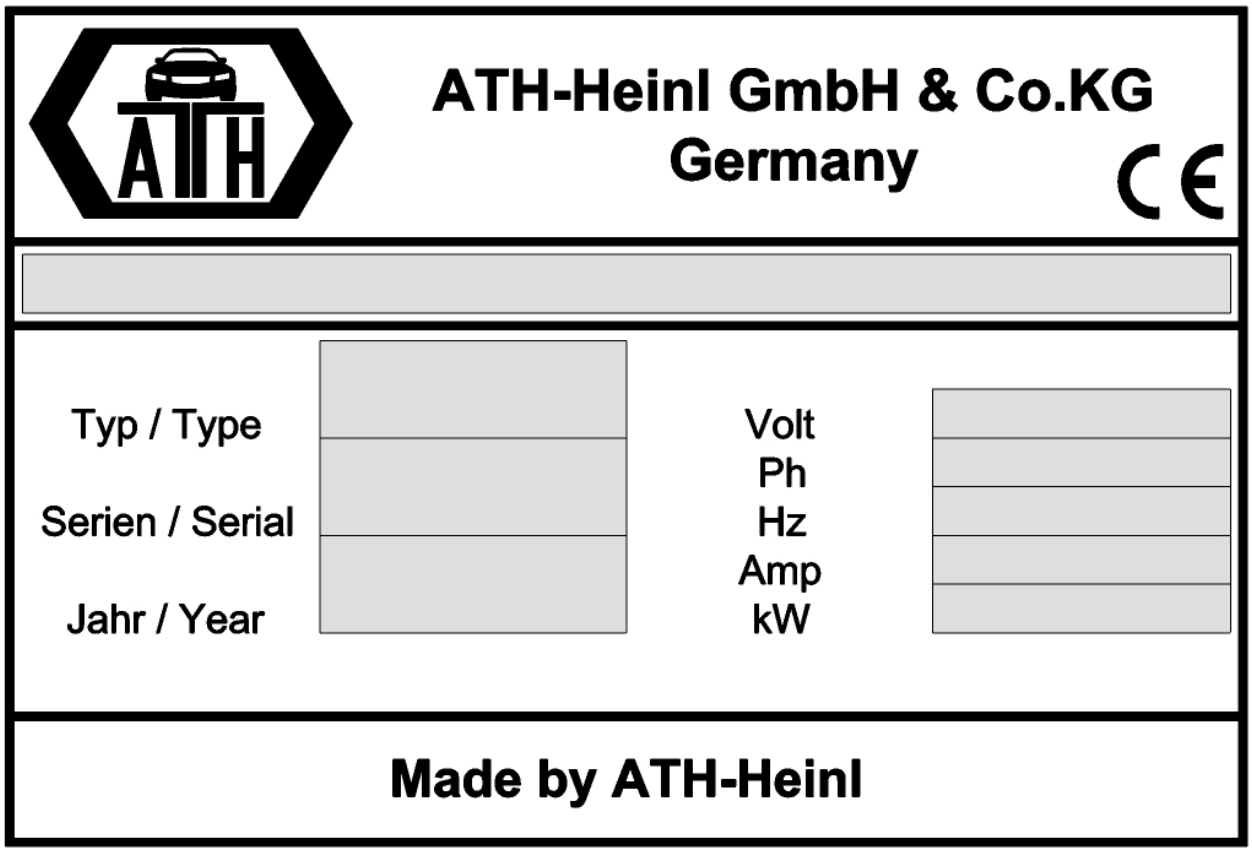
CHECKING
The lift must be checked after finishing the installation and then regularly by a suitable and authorized company or institution according to the guilty instructions and legal regulations in the country of installation.

Any changes or extensions of the lift type must be recorded and approved in an additional checking book.

Checking scope
Besides the correct operation above all the security relevant devices of the lift have to be checked.

Technical data
- See the enclosed user´s manual.

Type label
- Fill in all the following information
- Manufacturer & type of the used anchor bolts: _____
- Manufacturer & type of the used hydraulic oil: _____



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Protocol of Installation/Handover certificate

Place of installation:	**Product:**
Company:	Manufacturer: _____
Street:	Type/Model: _____
Town:	Serial n° : _____
Country:	Production year: _____

The above lift was installed, checked for function and security and it was put into operation.
The installation was performed by:

☐ The operator ☐ The operator

The operator confirms the correct installation of the lift, to have read all informations in this user´s manual and to follow them accordingly, as well as to store it accessible for all introduced.

The service technician confirms the correct installation of the lift, to have read all informations in this user´s manual and checking book, to have given the operator all documents and to have instructed all operators properly.

The operators confirm that there was an instruction in operation of the lift made by the service technician of the manufacturer or a distributing partner (expert) after installation and initial operation.

Name and stamp of service technician	Date and signature of service technician
Name and company stamp of operator	Date and signature of operator
Name of operator	Date and signature of operator
Name of operator	Date and signature of operator
Name of operator	Date and signature of operator
Name of operator	Date and signature of operator

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Visual check (VBG14/BGR500)

Manufacturer & Type: _____ Serial n°: _____

☐ Initial operation on: _____

☐ Regular checking on: _____

☐ Check-over on: _____

Test step:	O.K.	Deficiency	Check-over	Note
Type label	☐	☐	☐	_____
Capacity- and type label	☐	☐	☐	_____
Short user´s manual	☐	☐	☐	_____
User´s manual	☐	☐	☐	_____
Warning symbols	☐	☐	☐	_____
Marking for operation	☐	☐	☐	_____
Construction (deformation, cracks)	☐	☐	☐	_____
Torque of anchors and stability	☐	☐	☐	_____
Condition concrete floor (cracks)	☐	☐	☐	_____
Condition electrical lines	☐	☐	☐	_____
Lockable main switch	☐	☐	☐	_____
Condition/Function of safety notches	☐	☐	☐	_____
Condition/ Locking of screws, bolts and bearings	☐	☐	☐	_____
Condition of lifting arms and pads	☐	☐	☐	_____
Condition/Function of lifting arm locking	☐	☐	☐	_____
Condition/Function of feet protector or CE-Stop	☐	☐	☐	_____
Function test limit switch above	☐	☐	☐	_____
Condition of lifting cylinder and chain	☐	☐	☐	_____
Condition/Function of hydraulic system	☐	☐	☐	_____
Condition/Function synchronization control	☐	☐	☐	_____
Condition of covers	☐	☐	☐	_____
Function test under load	☐	☐	☐	_____
Control and tighten of anchor torque (after 5 liftings under load)	☐	☐	☐	_____
General condition	☐	☐	☐	_____
Inspection plate granted	☐	☐	☐	_____

Result of test:

☐ Further operation critical, check-over necessary

☐ Further operation possible, remedy of deficiencies

☐ No deficiencies, further operation granted

Name and stamp of service technician | Date and signature of service technician

Name and stamp of operator | Date and signature of operator

⚠ The operator confirms with his signature that the floor meets the requirements.

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Visual check (VBG14/BGR500)

Manufacturer & Type: _____ Serial n°: _____

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☐ Regular checking on: _____

☐ Check-over on: _____

Test step:	O.K.	Deficiency	Check-over	Note
Type label	☐	☐	☐	_____
Capacity- and type label	☐	☐	☐	_____
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Control and tighten of anchor torque (after 5 liftings under load)	☐	☐	☐	_____
General condition	☐	☐	☐	_____
Inspection plate granted	☐	☐	☐	_____

Result of test:

☐ Further operation critical, check-over necessary

☐ Further operation possible, remedy of deficiencies

☐ No deficiencies, further operation granted

Name and stamp of service technician | Date and signature of service technician

Name and stamp of operator | Date and signature of operator

⚠ The operator confirms with his signature that the floor meets the requirements.

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Visual check (VBG14/BGR500)

Manufacturer & Type: _____ Serial n°: _____

☐ Initial operation on: _____

☐ Regular checking on: _____

☐ Check-over on: _____

Test step:	O.K.	Deficiency	Check-over	Note
Type label	☐	☐	☐	_____
Capacity- and type label	☐	☐	☐	_____
Short user´s manual	☐	☐	☐	_____
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Control and tighten of anchor torque (after 5 liftings under load)	☐	☐	☐	_____
General condition	☐	☐	☐	_____
Inspection plate granted	☐	☐	☐	_____

Result of test:

☐ Further operation critical, check-over necessary

☐ Further operation possible, remedy of deficiencies

☐ No deficiencies, further operation granted

Name and stamp of service technician | Date and signature of service technician

Name and stamp of operator | Date and signature of operator

⚠ The operator confirms with his signature that the floor meets the requirements.

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Visual check (VBG14/BGR500)

Manufacturer & Type: _____ Serial n°: _____

☐ Initial operation on: _____

☐ Regular checking on: _____

☐ Check-over on: _____

Test step:	O.K.	Deficiency	Check-over	Note
Type label	☐	☐	☐	_____
Capacity- and type label	☐	☐	☐	_____
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Condition of covers	☐	☐	☐	_____
Function test under load	☐	☐	☐	_____
Control and tighten of anchor torque (after 5 liftings under load)	☐	☐	☐	_____
General condition	☐	☐	☐	_____
Inspection plate granted	☐	☐	☐	_____

Result of test:

☐ Further operation critical, check-over necessary

☐ Further operation possible, remedy of deficiencies

☐ No deficiencies, further operation granted

Name and stamp of service technician | Date and signature of service technician

Name and stamp of operator | Date and signature of operator

⚠ The operator confirms with his signature that the floor meets the requirements.

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Visual check (VBG14/BGR500)

Manufacturer & Type: _____ Serial n°: _____

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Test step:	O.K.	Deficiency	Check-over	Note
Type label	☐	☐	☐	_____
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General condition	☐	☐	☐	_____
Inspection plate granted	☐	☐	☐	_____

Result of test:

☐ Further operation critical, check-over necessary

☐ Further operation possible, remedy of deficiencies

☐ No deficiencies, further operation granted

Name and stamp of service technician | Date and signature of service technician

Name and stamp of operator | Date and signature of operator

⚠ The operator confirms with his signature that the floor meets the requirements.

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Visual check (VBG14/BGR500)

Manufacturer & Type: _____ Serial n°: _____

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Test step:	O.K.	Deficiency	Check-over	Note
Type label	☐	☐	☐	_____
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General condition	☐	☐	☐	_____
Inspection plate granted	☐	☐	☐	_____

Result of test:

☐ Further operation critical, check-over necessary

☐ Further operation possible, remedy of deficiencies

☐ No deficiencies, further operation granted

Name and stamp of service technician | Date and signature of service technician

Name and stamp of operator | Date and signature of operator

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Test step:	O.K.	Deficiency	Check-over	Note
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Function test limit switch above	☐	☐	☐	_____
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Condition/Function of hydraulic system	☐	☐	☐	_____
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Condition of covers	☐	☐	☐	_____
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Control and tighten of anchor torque (after 5 liftings under load)	☐	☐	☐	_____
General condition	☐	☐	☐	_____
Inspection plate granted	☐	☐	☐	_____

Result of test:

☐ Further operation critical, check-over necessary

☐ Further operation possible, remedy of deficiencies

☐ No deficiencies, further operation granted

Name and stamp of service technician | Date and signature of service technician

Name and stamp of operator | Date and signature of operator

⚠ The operator confirms with his signature that the floor meets the requirements.

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Visual check (VBG14/BGR500)

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Test step:	O.K.	Deficiency	Check-over	Note
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General condition	☐	☐	☐	_____
Inspection plate granted	☐	☐	☐	_____

Result of test:

☐ Further operation critical, check-over necessary

☐ Further operation possible, remedy of deficiencies

☐ No deficiencies, further operation granted

Name and stamp of service technician | Date and signature of service technician

Name and stamp of operator | Date and signature of operator

⚠ The operator confirms with his signature that the floor meets the requirements.

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Test step:	O.K.	Deficiency	Check-over	Note
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General condition	☐	☐	☐	_____
Inspection plate granted	☐	☐	☐	_____

Result of test:

☐ Further operation critical, check-over necessary

☐ Further operation possible, remedy of deficiencies

☐ No deficiencies, further operation granted

Name and stamp of service technician | Date and signature of service technician

Name and stamp of operator | Date and signature of operator

⚠ The operator confirms with his signature that the floor meets the requirements.

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Manufacturer & Type: _____ Serial n°: _____

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Test step:	O.K.	Deficiency	Check-over	Note
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Condition/Function of lifting arm locking	☐	☐	☐	_____
Condition/Function of feet protector or CE-Stop	☐	☐	☐	_____
Function test limit switch above	☐	☐	☐	_____
Condition of lifting cylinder and chain	☐	☐	☐	_____
Condition/Function of hydraulic system	☐	☐	☐	_____
Condition/Function synchronization control	☐	☐	☐	_____
Condition of covers	☐	☐	☐	_____
Function test under load	☐	☐	☐	_____
Control and tighten of anchor torque (after 5 liftings under load)	☐	☐	☐	_____
General condition	☐	☐	☐	_____
Inspection plate granted	☐	☐	☐	_____

Result of test:

☐ Further operation critical, check-over necessary

☐ Further operation possible, remedy of deficiencies

☐ No deficiencies, further operation granted

Name and stamp of service technician | Date and signature of service technician

Name and stamp of operator | Date and signature of operator

⚠ The operator confirms with his signature that the floor meets the requirements.

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NOTES

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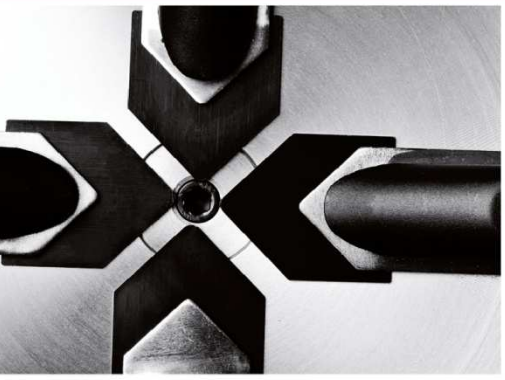

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